

FCC PART 15 SUBPART C TEST REPORT

for

PowerTV ON AIR

Model No.: ONAIR SBB

FCC ID: Q7A65000W0

of

Applicant: **VDA MULTIMEDIA SPA**

Address: **Viale Lino Zanussi, 3, 33170 Pordenone (PN) Italy**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21209-12734-C-1

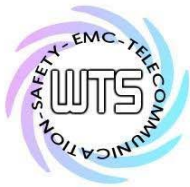
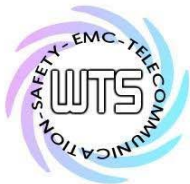


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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

The test sample is able to work according to IEEE 802.11 b/g/n and Zigbee.

This report is related to FCC Part 15 C (DSSS, OFDM and OQPSK device).

Tester:

December 06, 2012

Robert Ren

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

December 06, 2012

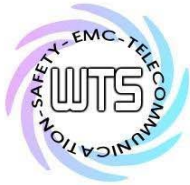
Danny Sung

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village,

Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1



Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

1.3 Details of approval holder

Name: VDA MULTIMEDIA SPA

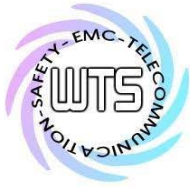
Street: Viale Lino Zanussi, 3,

Town: 33170 Pordenone (PN)

Country: Italy

Telephone: +39 (0434) 516111

Fax: +39 (0434) 516200



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1.4 Application details

Date of receipt of test item: September 20, 2012
Date of test: from September 21, 2012 to December 05, 2012

1.5 General information of Test item

Type of test item: PowerTV ON AIR
Model Number: ONAIR SBB
Brand Name: VDA
Multi-listing model number: ./.
Photos: see Appendix

Technical data

Frequency band: 2.4 GHz – 2.4835 GHz

11b, 11g, 11n 20MHz

Frequency (ch 1 or A): 2.412 GHz

Frequency (ch 6 or B): 2.437 GHz

Frequency (ch 11 or C): 2.462 GHz

11n 40MHz

Frequency (ch 1 or A): 2.422 GHz

Frequency (ch 4 or B): 2.437 GHz

Frequency (ch 7 or C): 2.452 GHz

ZIGBEE

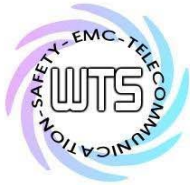
Frequency (ch 11 or A): 2.405 GHz

Frequency (ch 18 or B): 2.440 GHz

Frequency (ch 26 or C): 2.480 GHz

Number of Channels: 11b, 11g, 11n 20MHz: 11
11n 40MHz: 7
ZIGBEE: 16

Operation modes: duplex
Modulation Type: DSSS / OFDM / OQPSK
Fixed point-to-point operation: ☐ Yes / ☒ No
Type of Antenna: PCB Antenna
Antenna gain: 2.48dBi
Power supply: 110 VAC



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Emission designator: 11b: DSSS: 17M0G1D
11g: OFDM: 16M7D1D
11n 20MHz: OFDM: 19M7D1D
11n 40MHz: OFDM: 37M3D1D
ZIGBEE: 2M70G1D

Host device: none

Classification :

Fixed Device	☒
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☐
Modular Radio Device	☐

Transmitter

Unom

Mode A (DSSS)

Power (ch 1 or A): Conducted: 18.79dBm
Power (ch 6 or B): Conducted: 19.29dBm
Power (ch 11 or C): Conducted: 19.40dBm

Mode B (OFDM)

Power (ch 1 or A): Conducted: 21.78dBm
Power (ch 6 or B): Conducted: 22.35dBm
Power (ch 11 or C): Conducted: 22.50dBm

Mode C (OFDM)

Power (ch 1 or A): Conducted: 19.19dBm
Power (ch 6 or B): Conducted: 19.08dBm
Power (ch 11 or C): Conducted: 18.99dBm

Mode D (OFDM)

Power (ch 1 or A): Conducted: 18.54dBm
Power (ch 4 or B): Conducted: 18.57dBm
Power (ch 7 or C): Conducted: 18.62dBm

Mode E (OQPSK)

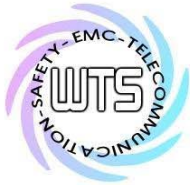
Power (ch 11 or A): Conducted: 11.96dBm
Power (ch 18 or B): Conducted: 11.10dBm
Power (ch 26 or C): Conducted: 10.49dBm

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.

1.6 Test standards

Technical standard : FCC RULES SUBPART C § 15.247 (2011-10)



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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



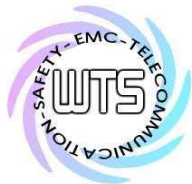
or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.



2.2 Test environment

Temperature:	23 °C
Relative humidity content:	20 ... 75 %
Air pressure:	86 ... 103 kPa
Power supply:	110VAC
Extreme conditions parameters:	./.

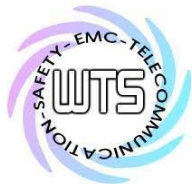


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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2012/9/5	2013/9/4
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2011/12/28	2012/12/27
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2012/9/26	2013/9/25
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2012/3/5	2013/3/4
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test Use	
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2012/7/3	2013/7/2
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2012/9/6	2013/9/5
ETSTW-CE 024	IMPEDANCE STABILIZATION NETWORK	ISN T800	29454	TESEQ	2012/1/4	2013/1/3
ETSTW-CS 004	COUPLING AND DECOUPLING NETWORK	CDN M016	20053	SCHAFFNER	2012/8/10	2013/8/09
ETSTW-CS 005	RF Power Amplifier	100A250A	306547	AR	Function Test	
ETSTW-CS 010	6 dB Attenuator	SA3N1007-06	None	AISI	Function test	
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2012/8/10	2013/8/09
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2012/9/5	2013/9/4
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2012/9/5	2013/9/4
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2012/9/5	2013/9/4
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2012/10/12	2013/10/11
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2012/4/03	2013/4/02
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2012/8/01	2013/7/31
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	Function Test	
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	Function Test	
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2012/2/21	2013/2/20
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2012/10/5	2013/10/4
ETSTW-RE 033	WaveRunner 6000A Serie Oscilloscope	WAVERUNNER 6100A	LCRY0604P1450 8	LeCroy	Function Test	
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2012/10/5	2013/10/4
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2012/1/10	2013/1/9
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2012/4/13	2013/4/12

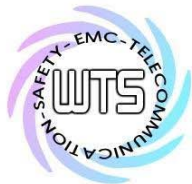


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ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2012/4/06	2013/4/05
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2012/8/28	2013/8/27
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2012/3/23	2013/3/22
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2012/3/3	2013/3/2
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2012/3/3	2013/3/2
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2012/3/3	2013/3/2
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2012/5/29	2013/5/28
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2012/3/3	2013/3/2
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2012/5/17	2013/5/16
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2012/11/28	2013/11/27
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650- 25-10P	941608	MITEQ	2012/4/6	2013/4/5
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2012/10/5	2013/10/4
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2012/1/4	2013/1/3
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2012/1/4	2013/1/3
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2012/10/12	2013/10/11
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2012/3/5	2013/3/4
ETSTW-RE 105	2.4GHz Notch Filter	NO124411	39555	MICROWAVE CIRCUITS, INC.	2012/3/5	2013/3/4
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2012/11/28	2013/11/27
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2011/12/27	2012/12/26
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2012/1/12	2013/1/11
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2012/7/3	2013/7/2
ETSTW-RE 125	5GHz Notch filter	5NSL11- 5200/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 126	5GHz Notch filter	5NSL11- 5800/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2012/3/3	2013/3/2
ETSTW-EMI 001	HARMONICS 1000	HAR1000-1P	093	EMC-PARTNER	2012/8/10	2013/8/09
ETSTW-EMS 001	BASELSTRASSE 160 CH- 4242 LAUFEN	CN-EFT1000	354	EMC-PARTNER	Function Test	
ETSTW-EMS 002	Frequency Converter	YF-6020	0308014	None	Function Test	
ETSTW-EMS 003	EMC Immunity Test System	TRA2000IN6	579	EMC-PARTNER	2012/11/6	2013/11/5
ETSTW-EMS 009	Magnetic Field Antenna	MF1000-1	104	EMC-PARTNER	Function Test	
ETSTW-EMS 010	Coupling De-coupling Network	CDN-UTP8	014	EMC-PARTNER	Function Test	
ETSTW-EMS 012	EM Injection Clamp	F-203I-23MM	476	FCC	2012/5/29	2013/5/28

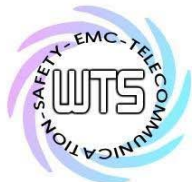


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ETSTW-EMS 016	EMF Tester	1390	071208732	TES	2012/10/5	2013/10/4
ETSTW-EMS 017	Multimeter	DM-1220	518614	HOLA	2012/8/10	2013/8/09
ETSTW-EMS 019	Electrostatic Discharge Simulator	ESS-2002	ESS06Y6300	NoiseKen	2012/10/5	2013/10/4
ETSTW-EMS 020	Humidity Temperature Meter	TES-1366	091011116	TES	2011/12/20	2012/12/19
ETSTW-RS 003	RF Power Amplifier	30S1G3	306933	AR	Function Test	
ETSTW-RS 004	RF Power Amplifier	150W1000	307009	AR	Function Test	
ETSTW-RS 006	SIGNAL GENERATOR	SML03	101551	R&S	2012/2/29	2013/2/28
ETSTW-RS 007	14" COLOR VIDEO MONITOR	HS-CM145A	0512011548	None	Function Test	
ETSTW-RS 009	SIGNAL GENERATOR	8648C	3642U01656	HP	2012/2/20	2013/2/19
ETSTW-RS 010	Broadband Field Meter	NBM-520	C-0195	Narda	2012/9/24	2013/9/23
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2012/10/5	2013/10/4
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2012/1/13	2013/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2012/1/13	2013/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2012/1/13	2013/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2012/1/13	2013/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2012/9/18	2013/9/17
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104 (S_Cable 7)	238093	HUBER+SUHNER	2012/5/17	2013/5/16
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 (S_Cable 11)	209953	HUBER+SUHNER	2012/5/17	2013/5/16
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2012/3/5	2013/3/4
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2012/3/5	2013/3/4
ETSTW-Cable 013	Microwave Cable	SUCOFLEX 104 (S_Cable 5)	232345	HUBER+SUHNER	Function Test	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2012/3/3	2013/3/2
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2012/4/6	2013/4/5
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2012/3/5	2013/3/4
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2012/3/5	2013/3/4
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2012/3/5	2013/3/4
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S_Cable 10)	238092	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 032	Microwave Cable	SUCOFLEX 104 (S_Cable 12)	237301	HUBER+SUHNER	Function Test	
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104 (S_Cable 19)	316739	HUBER+SUHNER	2012/5/17	2013/5/16
ETSTW-Cable 040	Microwave Cable	SUCOFLEX 104 (S_Cable 20)	316738	HUBER+SUHNER	Function Test	

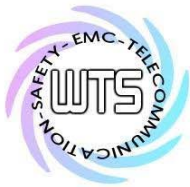


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ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 051	BNC Cable	BNC Cable 6	None	JYE BAO CO.,LTD.	2012/3/30	2013/3/29
ETSTW-Cable 052	BNC Cable	Clamp Cable	None	Schwarz beck	2012/3/30	2013/3/29
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2012/4/6	2013/4/5
ETSTW-Cable 054	BNC To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2012/4/6	2013/4/5
ETSTW-Cable 055	NTYPE Cable	N30N30-JBY240-80CM	20110621-1.1	JYE BAO CO.,LTD.	Function Test	
ETSTW-Cable 056	N TYPE Cable	N30N30-JBY240-80CM	20110621-1.0	JYE BAO CO.,LTD.	Function Test	
ETSTW-Cable 057	N TYPE Cable	N30N30-JBY240-80CM	20110621-1.1	JYE BAO CO.,LTD.	Function Test	
WTSTW-SW 001	EMI TEST SOFTWARE	Harmonics-1000	None	EMC PARTNER	HARCS Version 4.16 Firmware Version 2.18	
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 003	EMS TEST SOFTWARE	i2	None	AUDIX	Version 3.2007-8-17b	



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2009 6.4 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

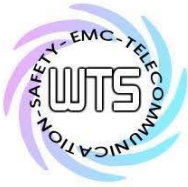
The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2009 6.3.1. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). The Registration Number: 930600.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



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When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

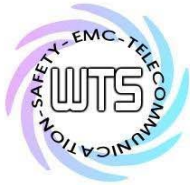
Average = Peak + Duty Factor

Duty Factor = $20 \log (\text{dwell time}/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.4-2009 10.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.

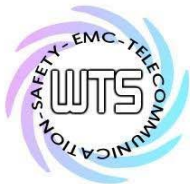


Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	☒	☒	☐
Equivalent isotropically radiated Power	15.247(b)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c): 15.209	☒	☒	☐
Band Edge Measurement	15.247(d)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Peak Power Spectral Density	15.247(e)	☒	☒	☐
Radiated Emission from Digital Part	15.109	☐	☐	☐
Power Line Conducted Emission	15.207	☒	☒	☐



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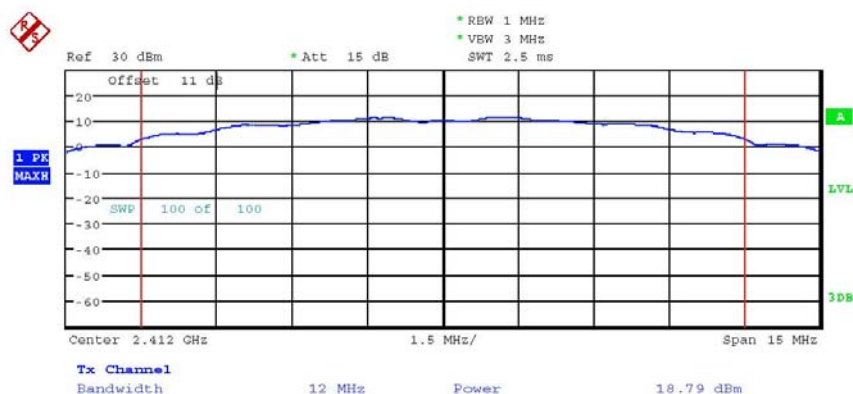
3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

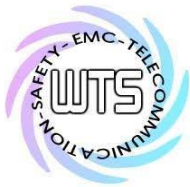
The power was measured with modulation (declared by the applicant).

WLAN



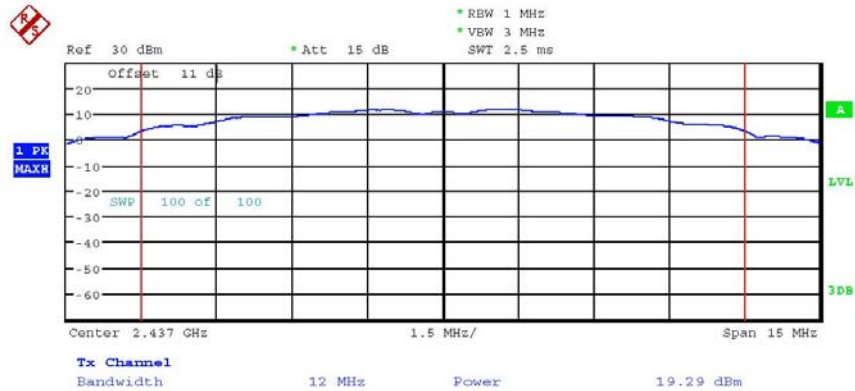
MAX OUTPUT POWER 802.11B CH01

Date: 31.OCT.2012 06:31:22

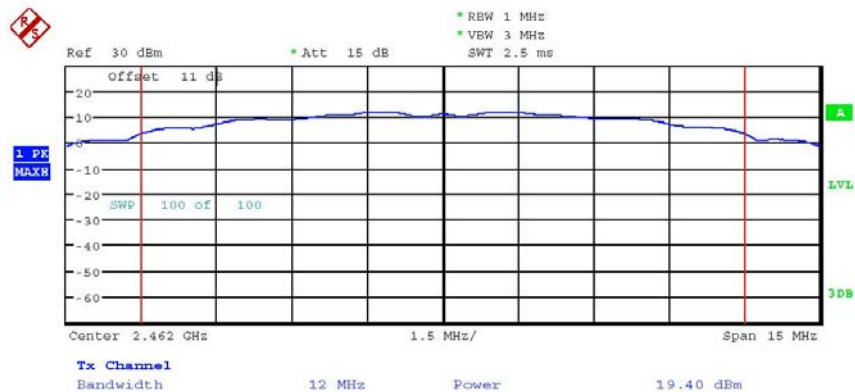


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



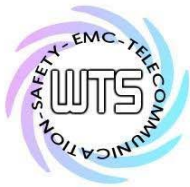
MAX OUTPUT POWER 802.11B CH06
Date: 31.OCT.2012 06:31:56



MAX OUTPUT POWER 802.11B CH11
Date: 31.OCT.2012 06:32:23

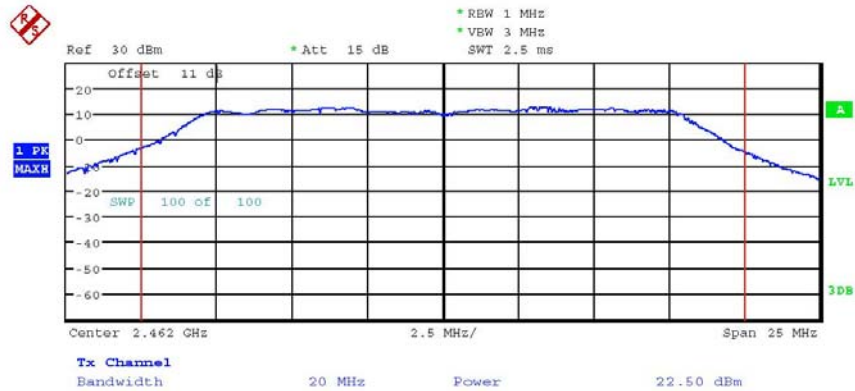


FCC ID: Q7A65000W0

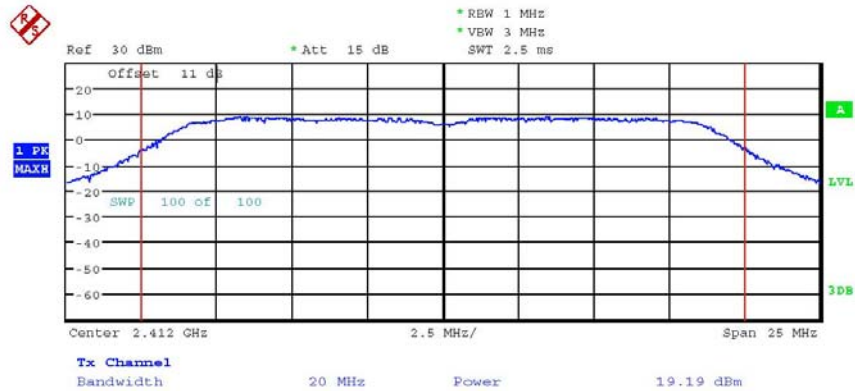


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



MAX OUTPUT POWER 802.11G CH11
Date: 31.OCT.2012 06:34:05



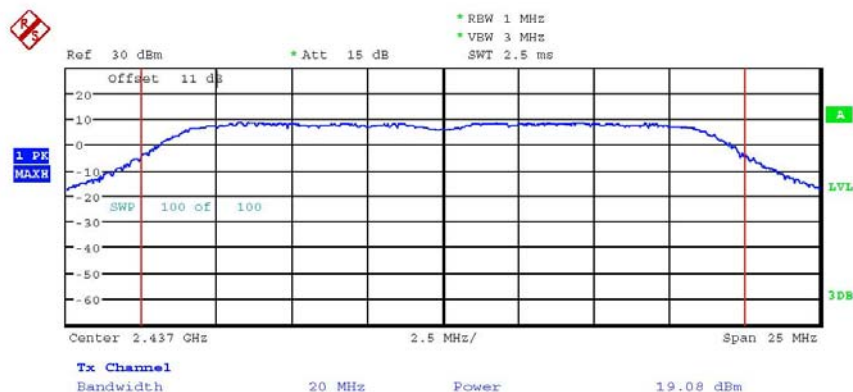
MAX OUTPUT POWER 802.11N 20MHZ CH01
Date: 31.OCT.2012 06:35:00



Worldwide Testing Services(Taiwan) Co., Ltd.

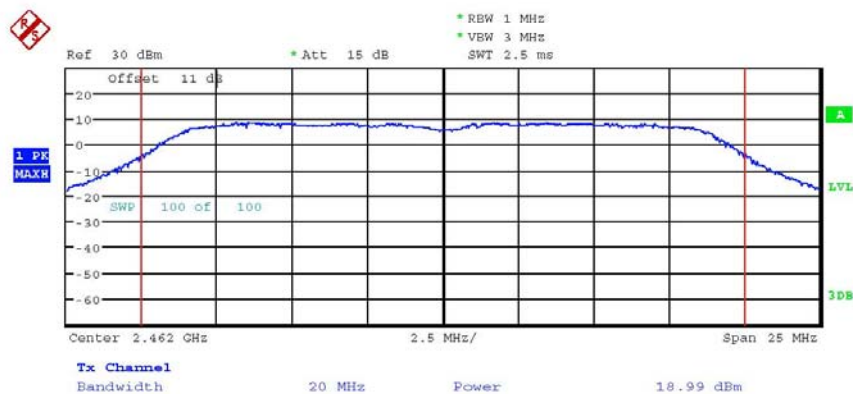
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



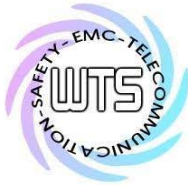
MAX OUTPUT POWER 802.11N 20MHZ CH06

Date: 31.OCT.2012 06:35:36



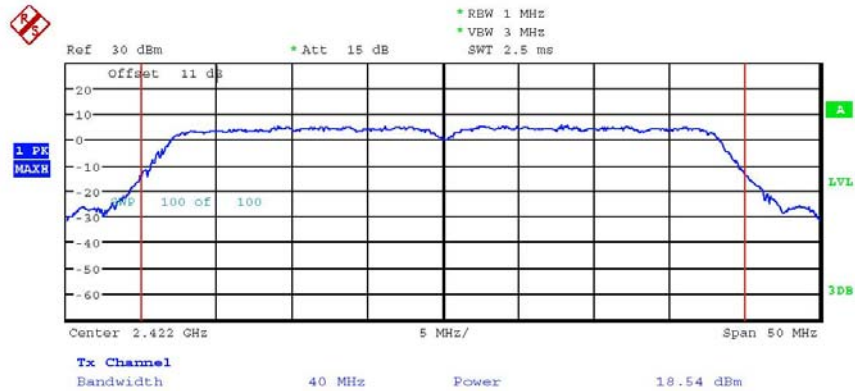
MAX OUTPUT POWER 802.11N 20MHZ CH11

Date: 31.OCT.2012 06:36:06

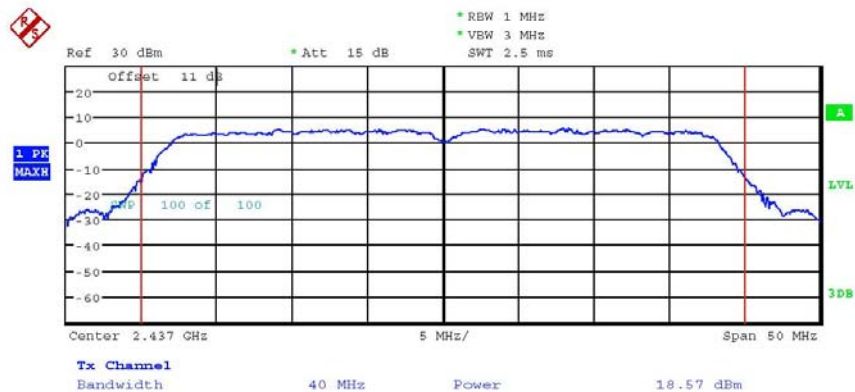


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



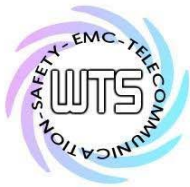
MAX OUTPUT POWER 802.11N 40MHZ CH01
Date: 31.OCT.2012 06:36:43



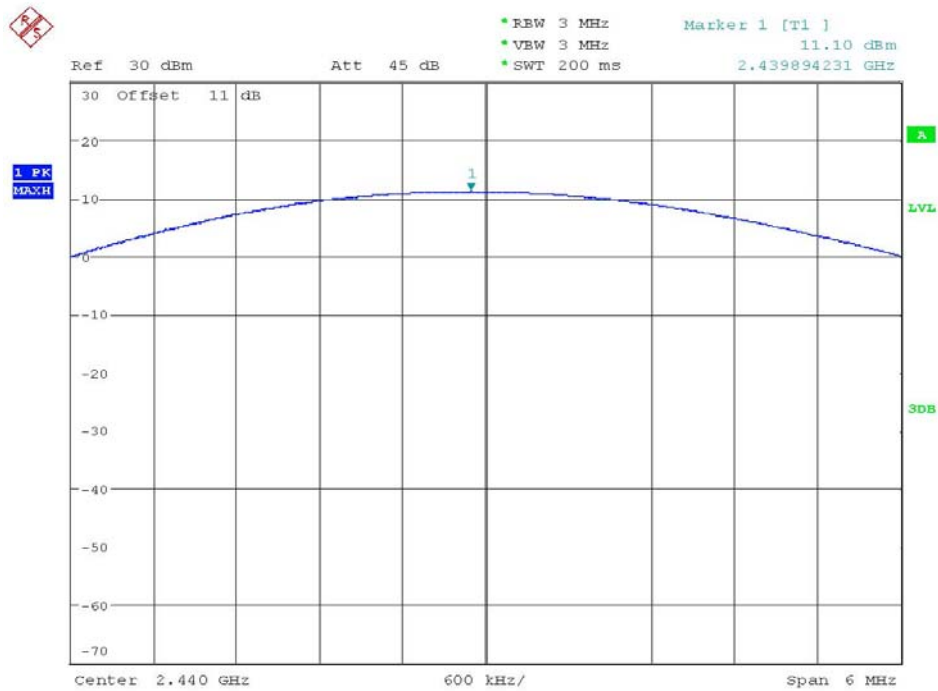
MAX OUTPUT POWER 802.11N 40MHZ CH04
Date: 31.OCT.2012 06:37:19



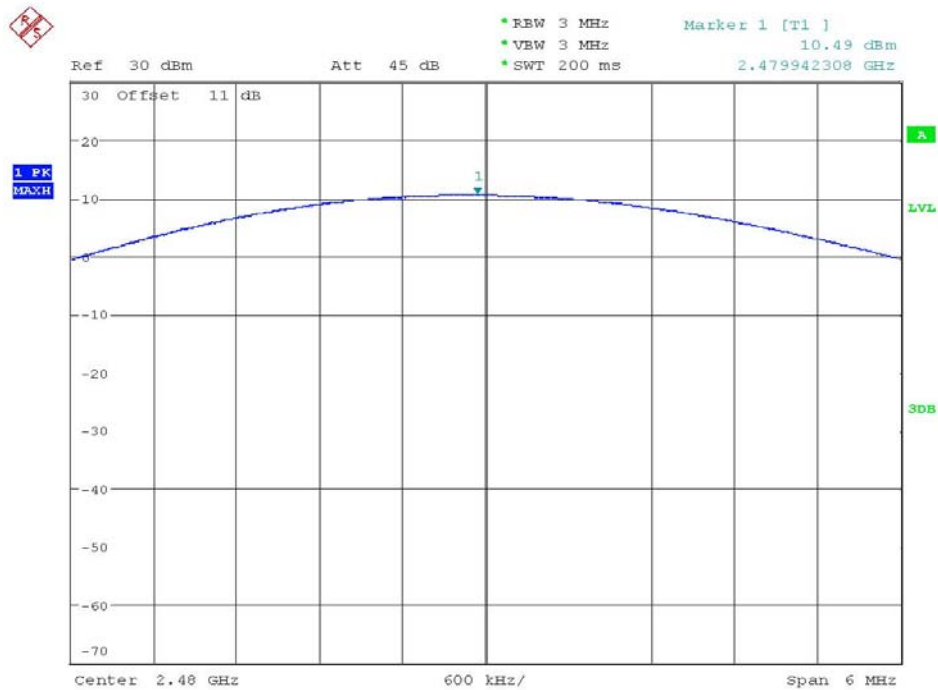
FCC ID: Q7A65000W0



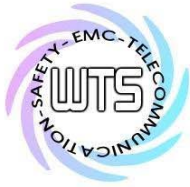
Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



MAX OUTPUT POWER 2440MHz
Date: 5.DEC.2012 09:06:44



MAX OUTPUT POWER 2480MHz
Date: 5.DEC.2012 09:07:34



Worldwide Testing Services(Taiwan) Co., Ltd.

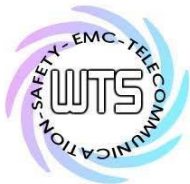
Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain > 6 dBi and using fixed point-to point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 22.50 dBm + 2.48 dBi

= 24.98 dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

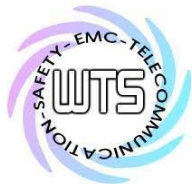
D – Cable Loss

AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	177.8279	Peak value
D	dB		
AG	dBi	2.48	
G		1.7701	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0626	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0



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3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26500 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency $\leq$ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency $>$ 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency $>$ 1 GHz , RBW:1 MHz , VBW: 10 Hz (Average measurements)

Limits.

For frequencies below 1GHz:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

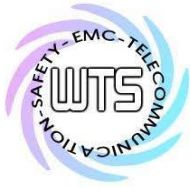
“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = $20 \log (\text{dwell time} / 100\text{ms})$

Note: No duty cycle correction was added to the reading of this EUT.

Explanation: see attached diagrams in Appendix.



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FCC ID: Q7A65000W0

3.5 Spurious Emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

FCC Rule: 15.247(c), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies above 1GHz (Peak measurements).

Modified Limit for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

Max. reading – 20 dB

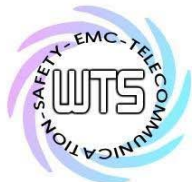
Guidance on Measurement of Digit Transmission Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction = $20 \log (\text{dwell time}/100\text{ms})$

Note: No duty cycle correction was added to the reading of EUT.



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SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Correction Factor".

Summary table with radiated data of the test plots

Model: ONAIR SBB

Date: 2012/10/29~2012/11/27

Mode: TX 802.11b CH1

Temperature: 24 °C Engineer: Kevin

Polarization: Horizontal

Humidity: 60 %

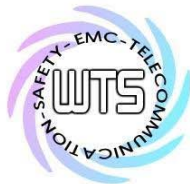
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	28.29	peak	15.22	43.51	46.00	-2.49	220	100
366.2925	23.84	peak	17.36	41.20	46.00	-4.80	300	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4817.6350	49.76	---	-1.33	48.43	---	74.00	54.00	-25.57	110	100
7236.0000	39.70	---	4.20	43.90	---	74.00	54.00	-30.10	200	100
9648.0000	33.45	---	6.56	40.01	---	74.00	54.00	-33.99	230	100
12060.0000	33.80	---	11.56	45.36	---	74.00	54.00	-28.64	110	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
99.9800	21.13	peak	10.84	31.97	43.50	-11.53	310	100
366.2925	22.66	peak	17.36	40.02	46.00	-5.98	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4825.6510	49.76	---	-1.31	48.45	---	74.00	54.00	-25.55	330	100
7236.0000	39.99	---	4.20	44.19	---	74.00	54.00	-29.81	140	100
9648.0000	33.23	---	6.56	39.79	---	74.00	54.00	-34.21	130	100
12060.0000	31.81	---	11.56	43.37	---	74.00	54.00	-30.63	200	100



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FCC ID: Q7A65000W0

Mode: TX 802.11b CH6

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	28.33	peak	15.22	43.55	46.00	-2.45	250	100
366.2925	24.42	peak	17.36	41.78	46.00	-4.22	300	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4873.7480	50.17	---	-1.15	49.02	---	74.00	54.00	-24.98	220	100
7311.0000	40.25	---	4.33	44.58	---	74.00	54.00	-29.42	300	100
9748.0000	33.84	---	6.81	40.65	---	74.00	54.00	-33.35	260	100
12185.0000	32.71	---	12.36	45.07	---	74.00	54.00	-28.93	310	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	20.99	peak	15.22	36.21	46.00	-9.79	40	100
376.0120	22.65	peak	17.60	40.25	46.00	-5.75	230	100

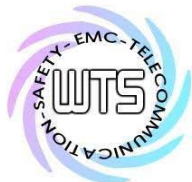
Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4873.7480	50.98	---	-1.15	49.83	---	74.00	54.00	-24.17	260	100
7311.0000	40.66	---	4.33	44.99	---	74.00	54.00	-29.01	170	100
9748.0000	33.33	---	6.81	40.14	---	74.00	54.00	-33.86	220	100
12185.0000	32.26	---	12.36	44.62	---	74.00	54.00	-29.38	80	100

Mode: TX 802.11b CH11

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	28.66	peak	15.22	43.88	46.00	-2.12	240	100
366.2925	25.38	peak	17.36	42.74	46.00	-3.26	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4921.8440	49.49	---	-0.98	48.51	---	74.00	54.00	-25.49	260	100
7386.0000	39.70	---	4.63	44.33	---	74.00	54.00	-29.67	300	100
9848.0000	34.37	---	7.08	41.45	---	74.00	54.00	-32.55	60	100
12310.0000	33.86	---	12.38	46.24	---	74.00	54.00	-27.76	110	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	21.24	peak	15.22	36.46	46.00	-9.54	40	100
366.2926	22.39	peak	17.36	39.75	46.00	-6.25	230	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4921.8440	49.26	---	-0.98	48.28	---	74.00	54.00	-25.72	40	100
7386.0000	39.86	---	4.63	44.49	---	74.00	54.00	-29.51	290	100
9848.0000	33.40	---	7.08	40.48	---	74.00	54.00	-33.52	40	100
12310.0000	30.75	---	12.38	43.13	---	74.00	54.00	-30.87	260	100

Mode: TX 802.11g CH1

Polarization: Horizontal

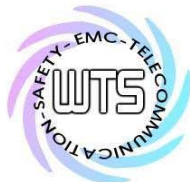
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	28.62	peak	15.22	43.84	46.00	-2.16	130	100
366.2925	24.31	peak	17.36	41.67	46.00	-4.33	280	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.67	---	-1.31	40.36	---	74.00	54.00	-33.64	40	100
7236.0000	40.14	---	4.20	44.34	---	74.00	54.00	-29.66	230	100
9648.0000	34.19	---	6.56	40.75	---	74.00	54.00	-33.25	40	100
12060.0000	33.84	---	11.56	45.40	---	74.00	54.00	-28.60	110	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
134.9700	17.49	peak	14.29	31.78	43.50	-11.72	300	100
374.0681	22.19	peak	17.55	39.74	46.00	-6.26	220	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4824.0000	42.38	---	-1.31	41.07	---	74.00	54.00	-32.93	220	100
7236.0000	39.93	---	4.20	44.13	---	74.00	54.00	-29.87	310	100
9648.0000	34.02	---	6.56	40.58	---	74.00	54.00	-33.42	40	100
12060.0000	32.28	---	11.56	43.84	---	74.00	54.00	-30.16	120	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Mode: TX 802.11g CH6

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	28.63	peak	15.22	43.85	46.00	-2.15	130	100
366.2925	24.69	peak	17.36	42.05	46.00	-3.95	40	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4874.0000	42.33	---	-1.15	41.18	---	74.00	54.00	-32.82	230	100
7311.0000	41.10	---	4.33	45.43	---	74.00	54.00	-28.57	110	100
9748.0000	34.33	---	6.81	41.14	---	74.00	54.00	-32.86	125	100
12185.0000	32.40	---	12.36	44.76	---	74.00	54.00	-29.24	40	100

Polarization: Vertical

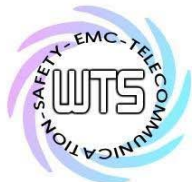
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
366.2926	23.62	peak	17.36	40.98	46.00	-5.02	120	100
397.3948	19.32	peak	18.14	37.46	46.00	-8.54	40	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4874.0000	41.93	---	-1.15	40.78	---	74.00	54.00	-33.22	250	100
7311.0000	39.88	---	4.33	44.21	---	74.00	54.00	-29.79	300	100
9748.0000	34.00	---	6.81	40.81	---	74.00	54.00	-33.19	260	100
12185.0000	32.26	---	12.36	44.62	---	74.00	54.00	-29.38	40	100

Mode: TX 802.11g CH11

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
274.9297	28.82	peak	14.99	43.81	46.00	-2.19	140	100
366.2925	24.73	peak	17.36	42.09	46.00	-3.91	200	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	41.73	---	-0.98	40.75	---	74.00	54.00	-33.25	220	100
7386.0000	39.98	---	4.63	44.61	---	74.00	54.00	-29.39	300	100
9848.0000	33.88	---	7.08	40.96	---	74.00	54.00	-33.04	140	100
12310.0000	31.21	---	12.38	43.59	---	74.00	54.00	-30.41	80	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
276.8737	21.30	peak	15.10	36.40	46.00	-9.60	130	100
376.0120	22.49	peak	17.60	40.09	46.00	-5.91	300	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4924.0000	41.73	---	-0.98	40.75	---	74.00	54.00	-33.25	220	100
7386.0000	39.98	---	4.63	44.61	---	74.00	54.00	-29.39	300	100
9848.0000	33.88	---	7.08	40.96	---	74.00	54.00	-33.04	140	100
12310.0000	31.21	---	12.38	43.59	---	74.00	54.00	-30.41	80	100

Mode: TX 802.11n 20MHz CH1

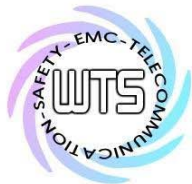
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
284.6492	28.63	peak	15.32	43.95	46.00	-2.05	330	100
366.2925	24.97	peak	17.36	42.33	46.00	-3.67	260	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.45	---	-1.31	40.14	---	74.00	54.00	-33.86	220	100
7236.0000	40.06	---	4.20	44.26	---	74.00	54.00	-29.74	80	100
9648.0000	34.18	---	6.56	40.74	---	74.00	54.00	-33.26	170	100
12060.0000	32.54	---	11.56	44.10	---	74.00	54.00	-29.90	60	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
368.2364	22.35	peak	17.41	39.76	46.00	-6.24	300	100
397.3948	19.15	peak	18.14	37.29	46.00	-8.71	280	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4824.0000	41.01	---	-1.31	39.70	---	74.00	54.00	-34.30	220	100
7236.0000	39.67	---	4.20	43.87	---	74.00	54.00	-30.13	300	100
9648.0000	34.42	---	6.56	40.98	---	74.00	54.00	-33.02	130	100
12060.0000	32.59	---	11.56	44.15	---	74.00	54.00	-29.85	220	100

Mode: TX 802.11n 20MHz CH6

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
276.8735	28.40	peak	15.10	43.50	46.00	-2.50	110	100
366.2925	24.19	peak	17.36	41.55	46.00	-4.45	240	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4874.0000	41.72	---	-1.15	40.57	---	74.00	54.00	-33.43	230	100
7311.0000	39.86	---	4.33	44.19	---	74.00	54.00	-29.81	80	100
9648.0000	33.90	---	6.56	40.46	---	74.00	54.00	-33.54	110	100
12060.0000	31.74	---	11.56	43.30	---	74.00	54.00	-30.70	90	100

Polarization: Vertical

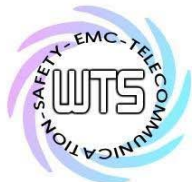
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	20.77	peak	15.22	35.99	46.00	-10.01	40	100
374.0681	22.71	peak	17.55	40.26	46.00	-5.74	210	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4874.0000	41.32	---	-1.15	40.17	---	74.00	54.00	-33.83	110	100
7311.0000	40.05	---	4.33	44.38	---	74.00	54.00	-29.62	60	100
9748.0000	35.46	---	6.81	42.27	---	74.00	54.00	-31.73	230	100
12185.0000	31.23	---	12.36	43.59	---	74.00	54.00	-30.41	140	100

Mode: TX 802.11n 20MHz CH11

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	28.31	peak	15.22	43.53	46.00	-2.47	110	100
366.2925	24.43	peak	17.36	41.79	46.00	-4.21	280	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4924.0000	41.20	---	-0.98	40.22	---	74.00	54.00	-33.78	130	100
7386.0000	39.44	---	4.63	44.07	---	74.00	54.00	-29.93	80	100
9848.0000	33.73	---	7.08	40.81	---	74.00	54.00	-33.19	140	100
12310.0000	32.14	---	12.38	44.52	---	74.00	54.00	-29.48	220	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
376.0120	21.99	peak	17.60	39.59	46.00	-6.41	300	100
397.3948	19.79	peak	18.14	37.93	46.00	-8.07	230	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4924.0000	41.25	---	-0.98	40.27	---	74.00	54.00	-33.73	220	100
7386.0000	39.94	---	4.63	44.57	---	74.00	54.00	-29.43	310	100
9848.0000	33.16	---	7.08	40.24	---	74.00	54.00	-33.76	130	100
12310.0000	31.71	---	12.38	44.09	---	74.00	54.00	-29.91	200	100

Mode: TX 802.11n 40MHz CH1

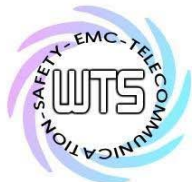
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
280.7615	28.24	peak	15.29	43.53	46.00	-2.47	140	100
366.2925	23.64	peak	17.36	41.00	46.00	-5.00	290	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4844.0000	41.26	---	-1.25	40.01	---	74.00	54.00	-33.99	160	100
7266.0000	40.93	---	4.24	45.17	---	74.00	54.00	-28.83	90	100
9688.0000	34.12	---	6.69	40.81	---	74.00	54.00	-33.19	160	100
12110.0000	32.60	---	11.89	44.49	---	74.00	54.00	-29.51	250	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
376.0120	22.45	peak	17.60	40.05	46.00	-5.95	300	100
397.3948	19.31	peak	18.14	37.45	46.00	-8.55	110	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4844.0000	40.77	---	-1.25	39.52	---	74.00	54.00	-34.48	130	100
7266.0000	40.32	---	4.24	44.56	---	74.00	54.00	-29.44	20	100
9688.0000	33.86	---	6.69	40.55	---	74.00	54.00	-33.45	130	100
12110.0000	31.83	---	11.89	43.72	---	74.00	54.00	-30.28	70	100

Mode: TX 802.11n 40MHz CH4

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
278.8176	28.32	peak	15.22	43.54	46.00	-2.46	110	100
366.2925	24.44	peak	17.36	41.80	46.00	-4.20	190	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4874.0000	41.33	---	-1.15	40.18	---	74.00	54.00	-33.82	230	100
7311.0000	39.56	---	4.33	43.89	---	74.00	54.00	-30.11	140	100
9748.0000	34.70	---	6.81	41.51	---	74.00	54.00	-32.49	200	100
12185.0000	31.97	---	12.36	44.33	---	74.00	54.00	-29.67	40	100

Polarization: Vertical

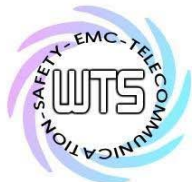
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
280.7615	20.40	peak	15.29	35.69	46.00	-10.31	60	100
366.2926	22.43	peak	17.36	39.79	46.00	-6.21	130	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4874.0000	41.27	---	-1.15	40.12	---	74.00	54.00	-33.88	130	100
7311.0000	40.19	---	4.33	44.52	---	74.00	54.00	-29.48	200	100
9748.0000	33.80	---	6.81	40.61	---	74.00	54.00	-33.39	160	100
12185.0000	31.42	---	12.36	43.78	---	74.00	54.00	-30.22	300	100

Mode: TX 802.11n 40MHz CH7

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
274.9297	28.07	peak	14.99	43.06	46.00	-2.94	310	100
366.2925	24.49	peak	17.36	41.85	46.00	-4.15	40	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4904.0000	40.04	---	-1.05	38.99	---	74.00	54.00	-35.01	230	100
7356.0000	39.74	---	4.51	44.25	---	74.00	54.00	-29.75	170	100
9808.0000	33.18	---	6.92	40.10	---	74.00	54.00	-33.90	130	100
12260.0000	31.80	---	12.38	44.18	---	74.00	54.00	-29.82	205	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
366.2926	23.67	peak	17.36	41.03	46.00	-4.97	220	100
397.3948	19.63	peak	18.14	37.77	46.00	-8.23	300	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4904.0000	41.23	---	-1.05	40.18	---	74.00	54.00	-33.82	230	100
7356.0000	41.01	---	4.51	45.52	---	74.00	54.00	-28.48	110	100
9808.0000	35.10	---	6.92	42.02	---	74.00	54.00	-31.98	300	100
12260.0000	32.15	---	12.38	44.53	---	74.00	54.00	-29.47	120	100

Mode: TX 2405MHz CH11

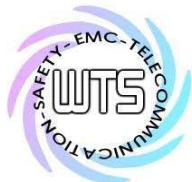
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
203.0060	26.68	peak	12.32	39.00	43.50	-4.50	240	100
335.1904	21.83	peak	16.52	38.35	46.00	-7.65	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4809.6190	65.34	42.38	-1.36	63.98	41.02	74.00	54.00	-12.98	180	100
7214.4290	51.73	38.40	4.17	55.90	42.57	74.00	54.00	-11.43	110	100
9620.0000	34.16	---	6.47	40.63	---	74.00	54.00	-33.37	230	100
12025.0000	35.43	---	11.33	46.76	---	74.00	54.00	-27.24	120	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
203.0060	27.57	peak	12.32	39.89	43.50	-3.61	230	100
335.1904	17.03	peak	16.52	33.55	46.00	-12.45	40	100



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4809.6190	64.09	42.31	-1.36	62.73	40.95	74.00	54.00	-13.05	210	100
7214.4290	51.12	38.86	4.17	55.29	43.03	74.00	54.00	-10.97	30	100
9620.0000	34.19	---	6.47	40.66	---	74.00	54.00	-33.34	300	100
12025.0000	33.95	---	11.33	45.28	---	74.00	54.00	-28.72	120	100

Mode: TX 2440MHz CH18

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
203.0060	26.40	peak	12.32	38.72	43.50	-4.78	150	100
335.1904	21.84	peak	16.52	38.36	46.00	-7.64	40	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4881.7640	63.43	42.37	-1.13	62.30	41.24	74.00	54.00	-12.76	220	100
7326.6530	49.67	38.74	4.40	54.07	43.14	74.00	54.00	-10.86	70	100
9760.0000	34.16	---	6.83	40.99	---	74.00	54.00	-33.01	260	100
12200.0000	32.49	---	12.45	44.94	---	74.00	54.00	-29.06	170	100

Polarization: Vertical

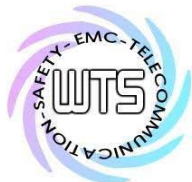
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
179.6794	20.27	peak	13.64	33.91	43.50	-9.59	180	100
203.0060	27.30	peak	12.32	39.62	43.50	-3.88	30	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4881.7640	61.27	41.78	-1.13	60.14	40.65	74.00	54.00	-13.35	225	100
7326.6530	52.80	39.74	4.40	57.20	44.14	74.00	54.00	-9.86	60	100
9760.0000	33.93	---	6.83	40.76	---	74.00	54.00	-33.24	260	100
12200.0000	32.66	---	12.45	45.11	---	74.00	54.00	-28.89	300	100

Mode: TX 2480MHz CH26

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
203.0060	26.32	peak	12.32	38.64	43.50	-4.86	230	100
335.1904	21.70	peak	16.52	38.22	46.00	-7.78	50	100



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Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4961.9240	61.23	42.08	-0.83	60.40	41.25	74.00	54.00	-12.75	220	100
7440.0000	41.39	---	4.56	45.95	---	74.00	54.00	-28.05	60	100
9920.0000	32.67	---	7.22	39.89	---	74.00	54.00	-34.11	230	100
12400.0000	31.32	---	12.88	44.20	---	74.00	54.00	-29.80	140	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
179.6794	20.68	peak	13.64	34.32	43.50	-9.18	55	100
203.0060	27.27	peak	12.32	39.59	43.50	-3.91	170	100

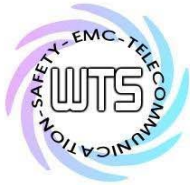
Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave			
4961.9240	61.31	41.84	-0.83	60.48	41.01	74.00	54.00	-12.99	210	100
7446.8940	42.70	---	4.54	47.24	---	74.00	54.00	-26.76	30	100
9920.0000	32.81	---	7.22	40.03	---	74.00	54.00	-33.97	300	100
12400.0000	31.48	---	12.88	44.36	---	74.00	54.00	-29.64	250	100

Note

1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.72 dB, 1-18 GHz = ± 5.56 dB, 18-40 GHz = ± 3.46 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **Please see attached diagrams in Appendix.**

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111,
ETSTW-RE 088, ETSTW-RE 018



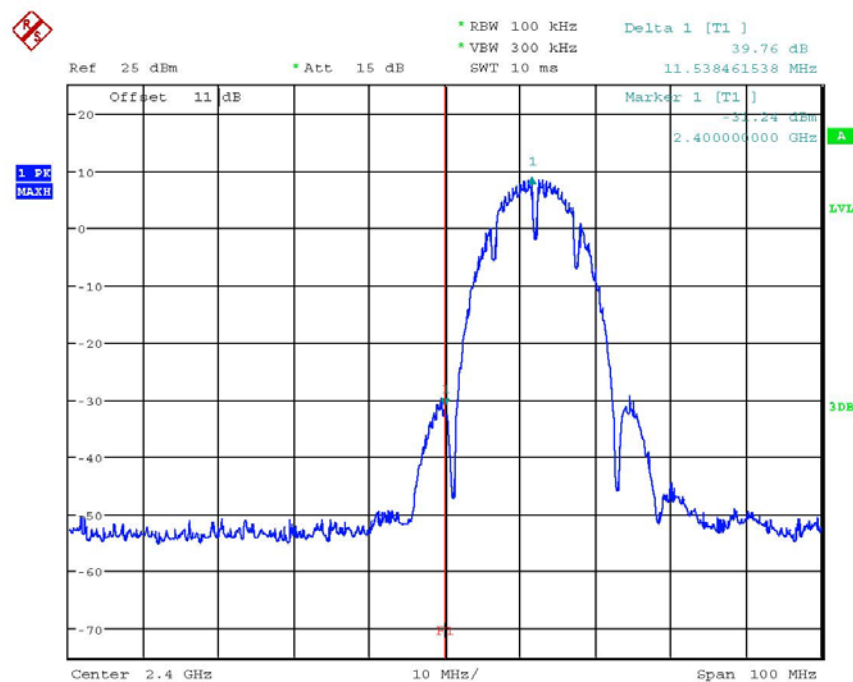
Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0

3.6 Radiated Emission on the band edge

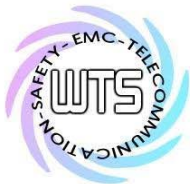
According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

WLAN

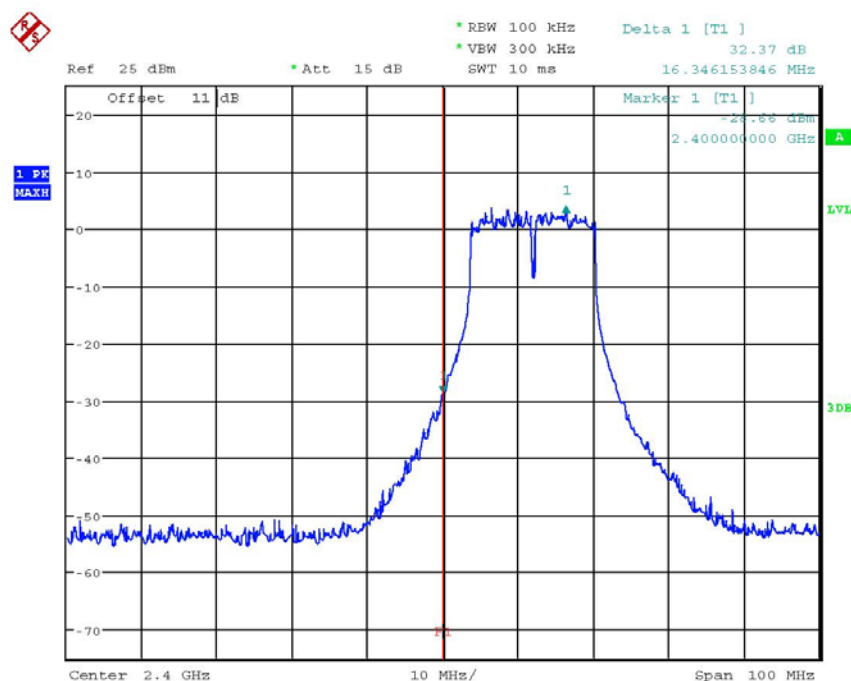
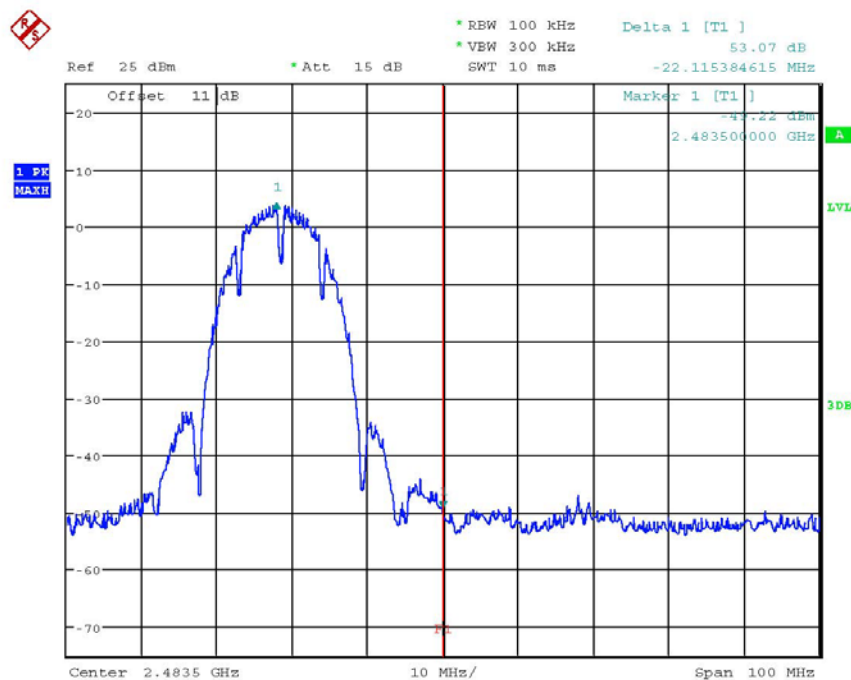


BANDEGE 802.11B CH01
Date: 31.OCT.2012 09:42:26



Registration number: W6M21209-12734-C-1

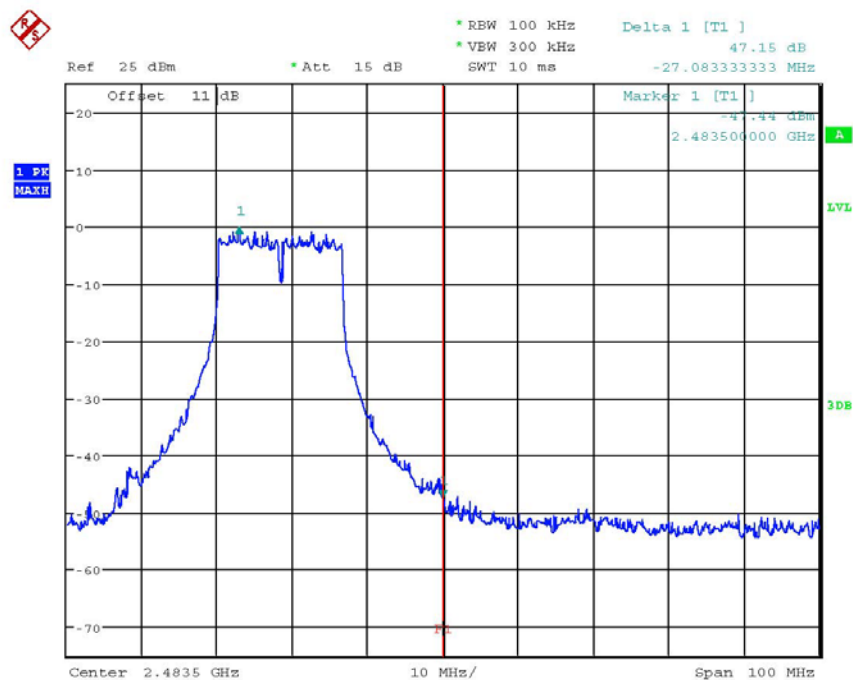
FCC ID: Q7A65000W0



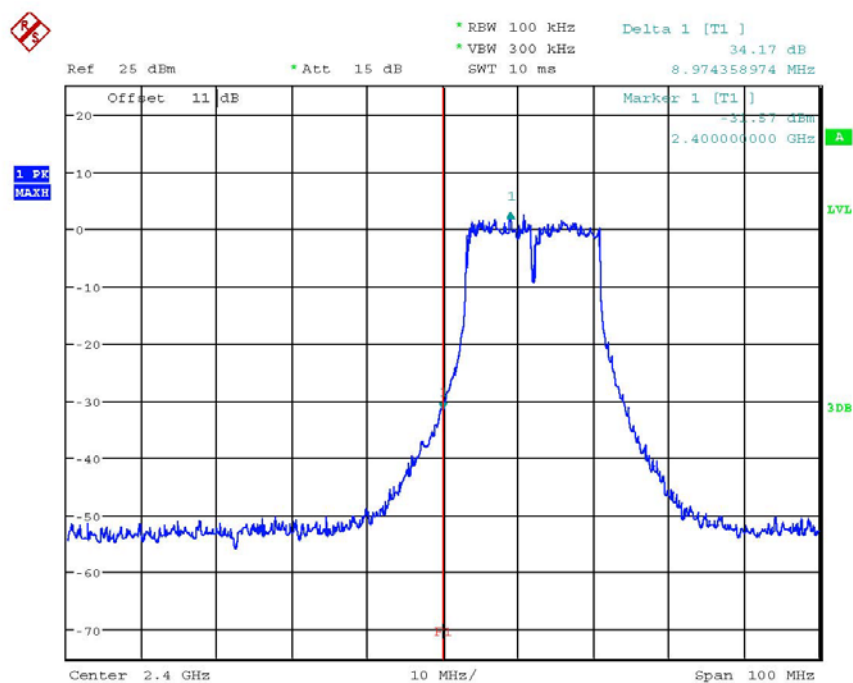


Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



BANDEDGE 802.11G CH11
Date: 31.OCT.2012 09:45:25

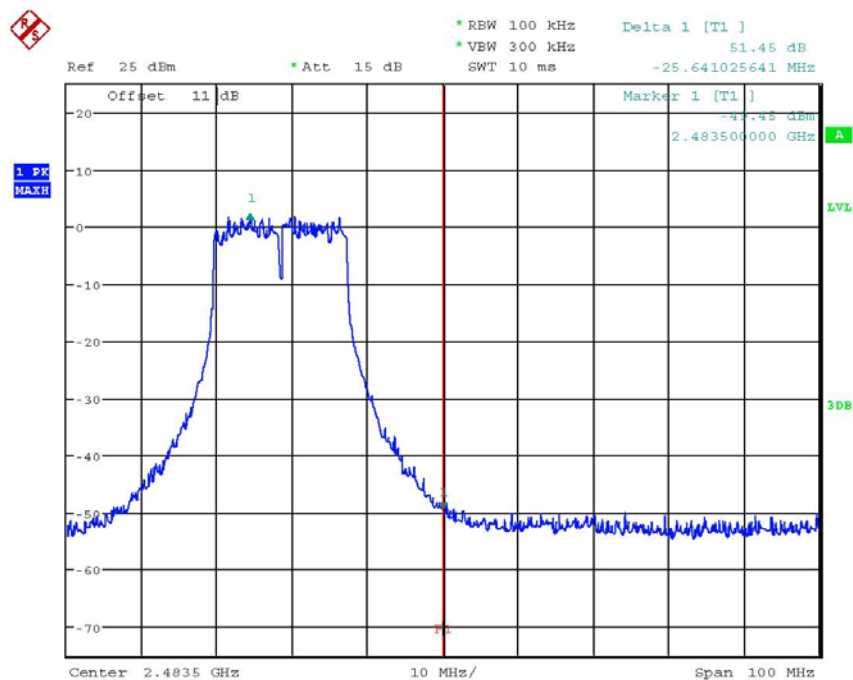


BANDEDGE 802.11N 20MHZ CH01
Date: 31.OCT.2012 09:46:09



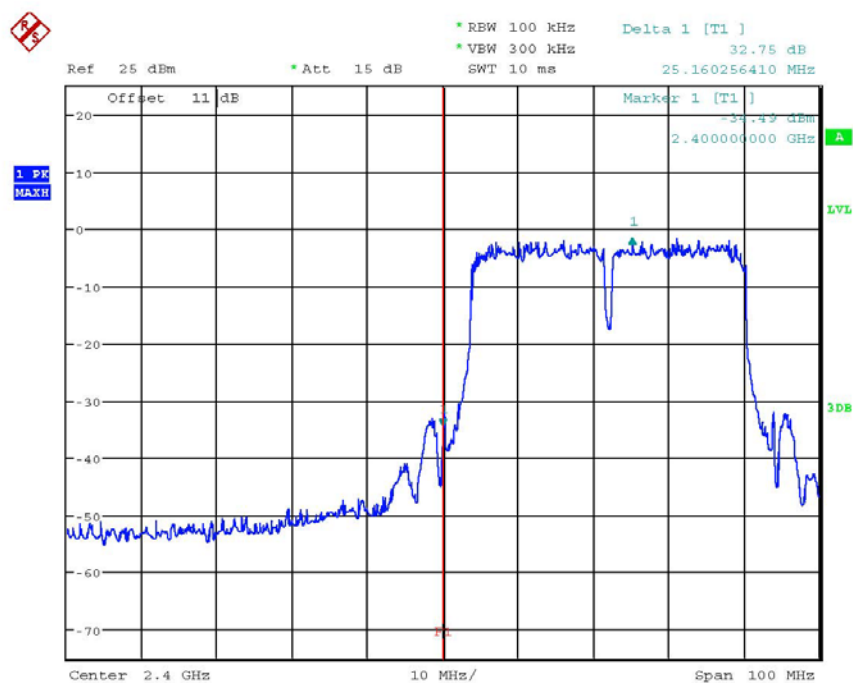
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



BANDEDGE 802.11N 20MHZ CH11

Date: 31.OCT.2012 09:47:13

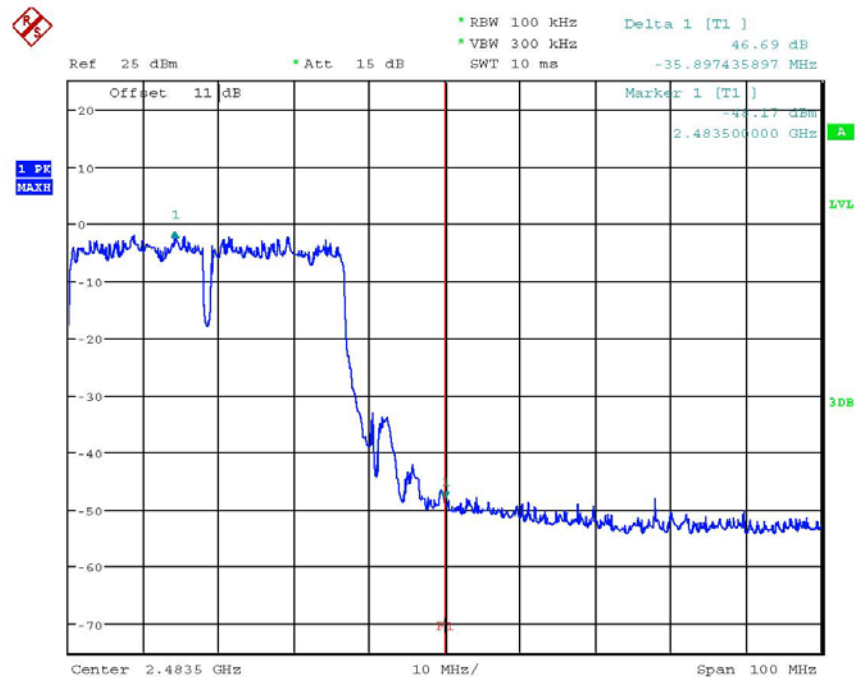


BANDEDGE 802.11N 40MHZ CH01

Date: 31.OCT.2012 09:48:03

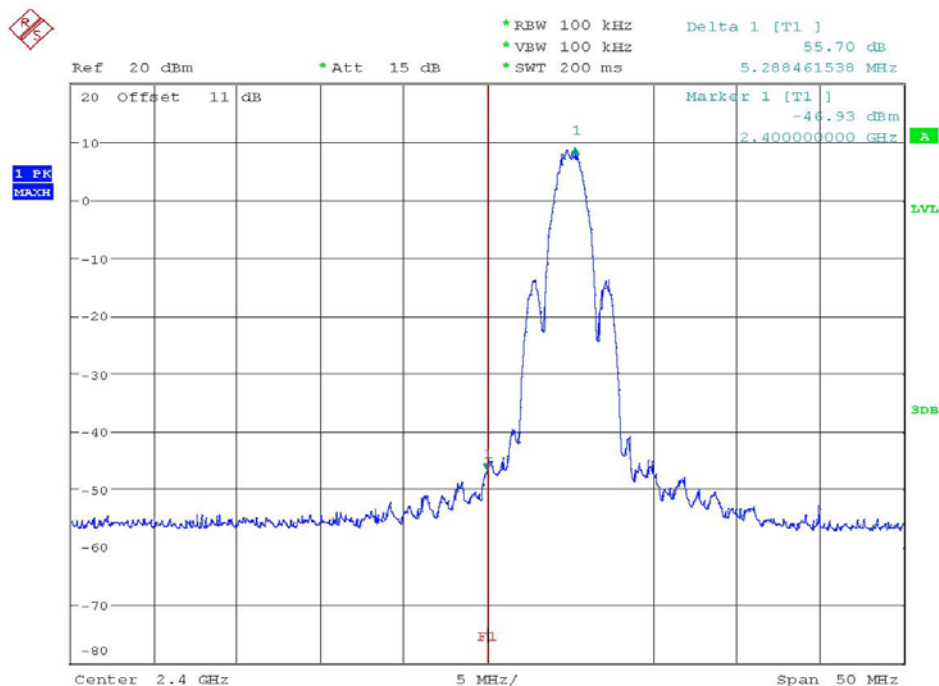


Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0

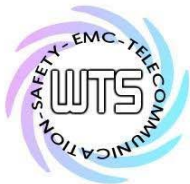


BANDEDGE 802.11N 40MHZ CH07
Date: 31.OCT.2012 09:55:55

ZIGBEE

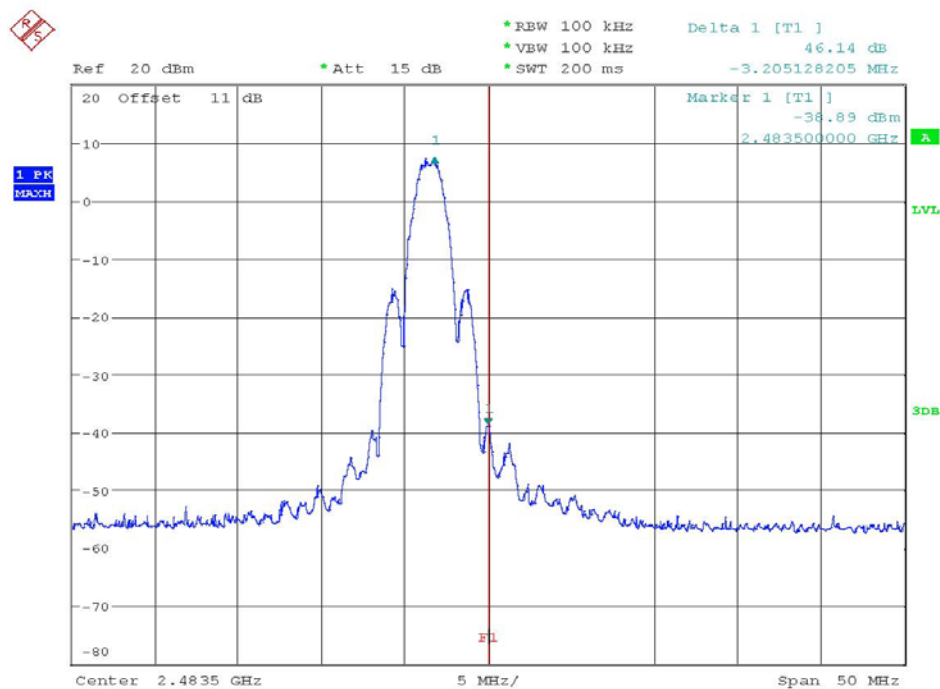


BANDEDGE 2405MHz
Date: 5.DEC.2012 09:18:09



Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

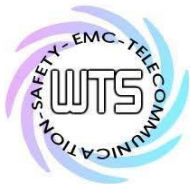


BANDEDGE 2480MHz
Date: 5.DEC.2012 09:17:17

Limit:

Frequency Range / MHz	Limit
902 – 928	- 20 dB
2400 – 2483.5	
5725 - 5850	

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21209-12734-C-1

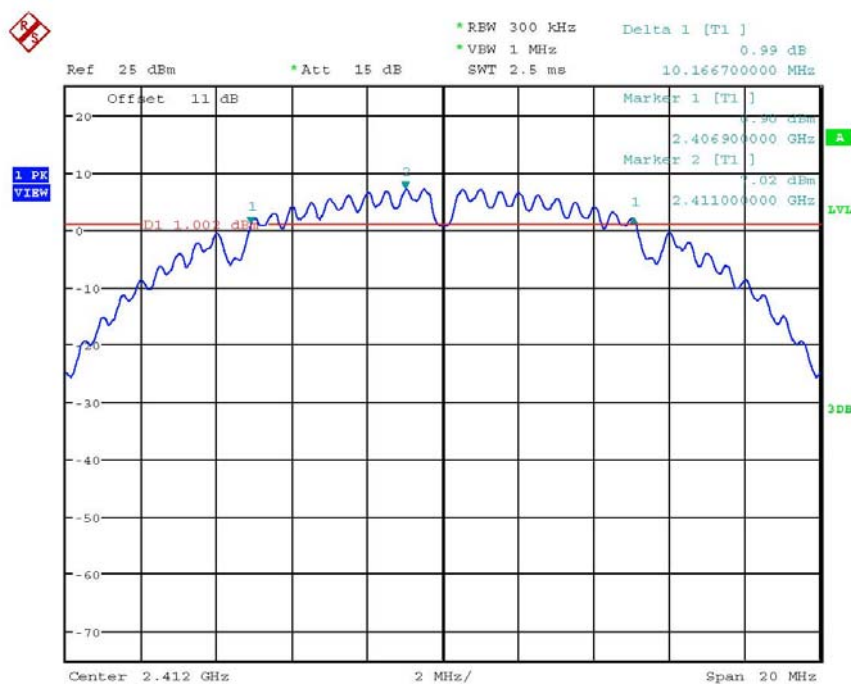
FCC ID: Q7A65000W0

3.7 Minimum 6 dB Bandwidth

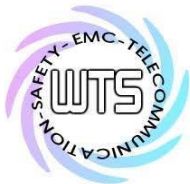
The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.

The 6 dB bandwidth is the frequency difference between the two markers.

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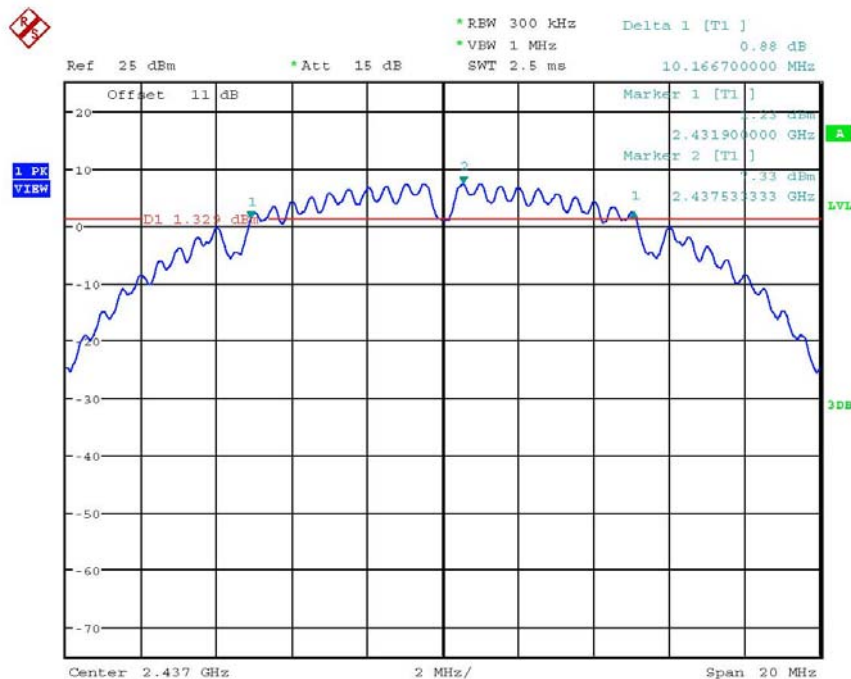


6DB BANDWIDTH 902.11B CH01
Date: 31.OCT.2012 06:02:58

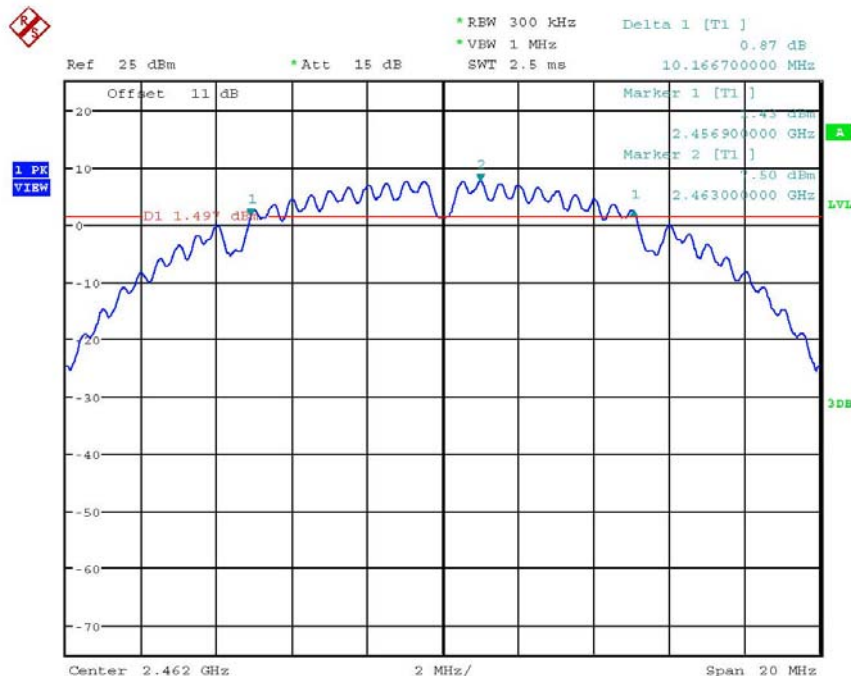


Registration number: W6M21209-12734-C-1

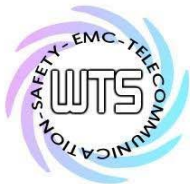
FCC ID: Q7A65000W0



6DB BANDWIDTH 902.11B CH06
Date: 31.OCT.2012 06:03:33

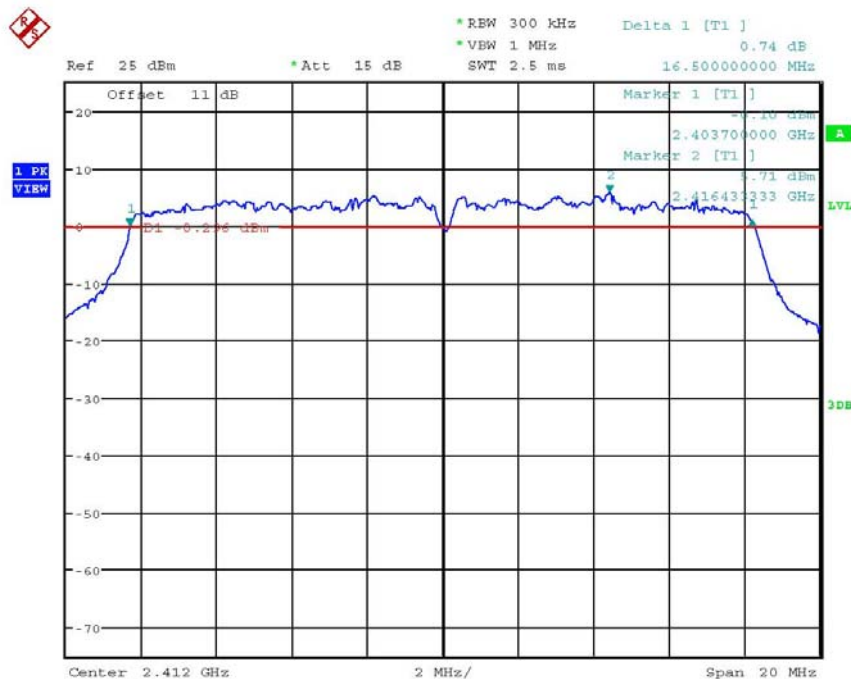


6DB BANDWIDTH 902.11B CH11
Date: 31.OCT.2012 06:04:06

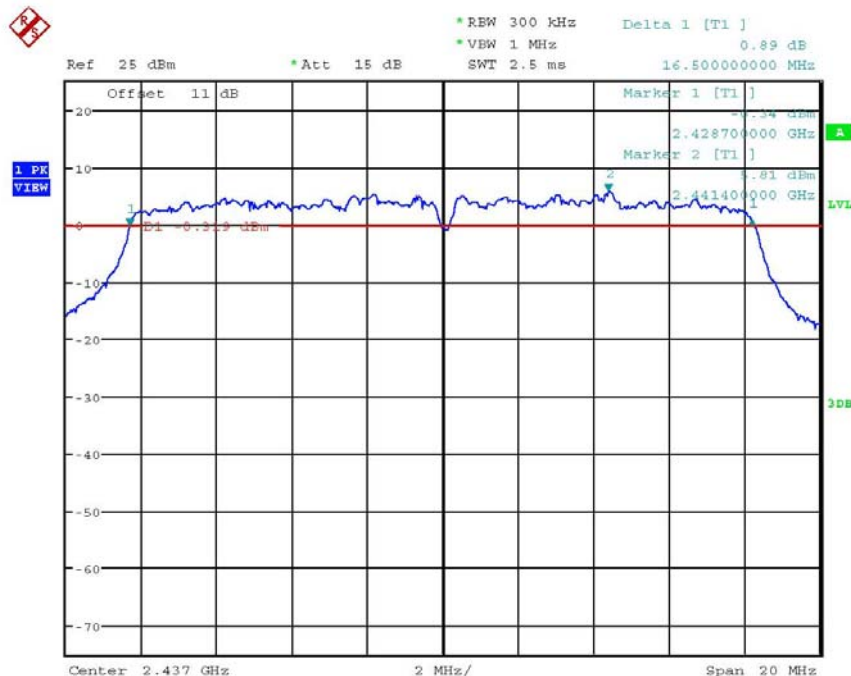


Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



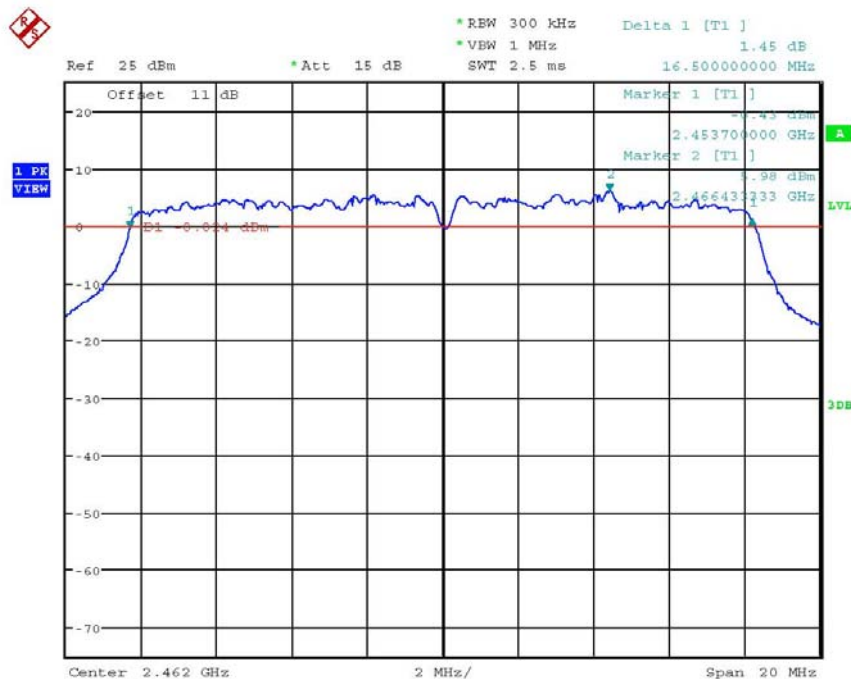
6DB BANDWIDTH 802.11G CH01
Date: 31.OCT.2012 06:06:36



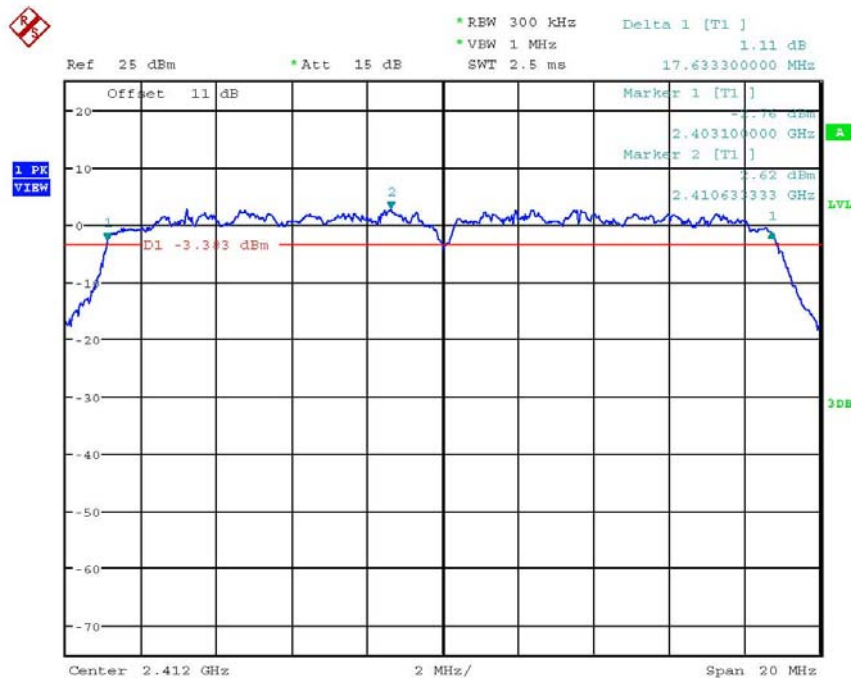
6DB BANDWIDTH 802.11G CH06
Date: 31.OCT.2012 06:22:56



Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



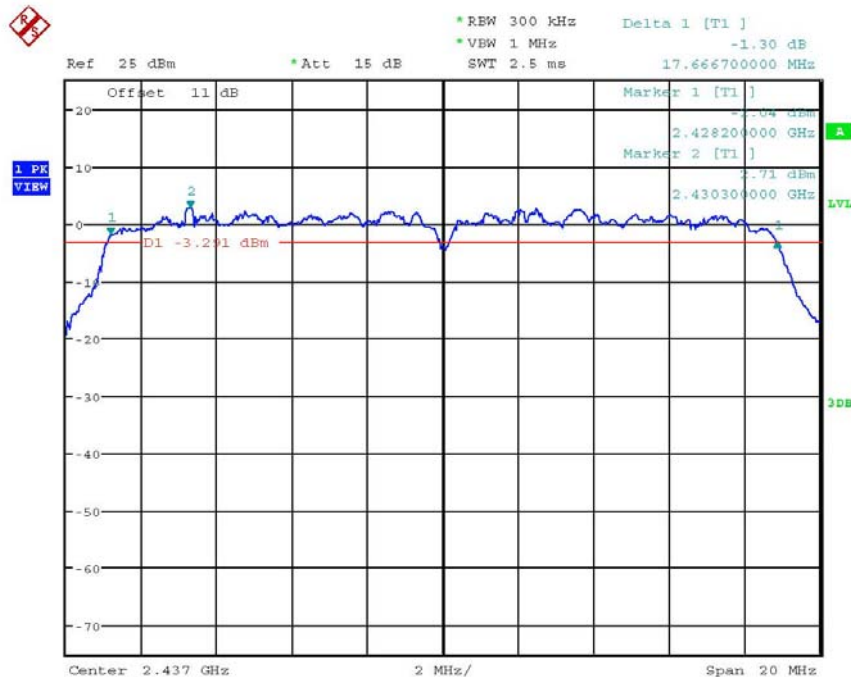
6DB BANDWIDTH 902.11G CH11
Date: 31.OCT.2012 06:23:23



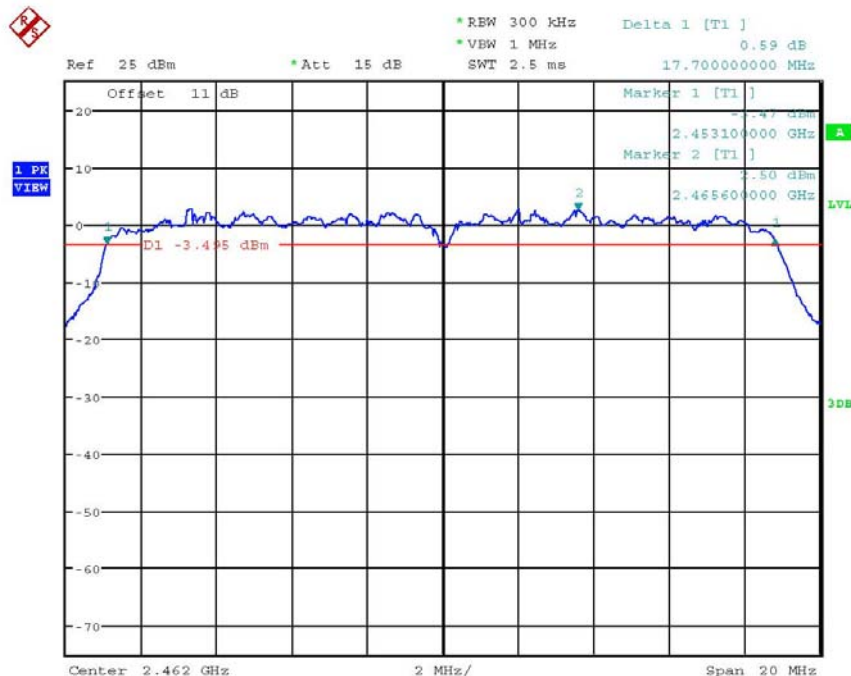
6DB BANDWIDTH 902.11N 20MHZ CH01
Date: 31.OCT.2012 06:24:11



Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



6DB BANDWIDTH 902.11N 20MHZ CH06
Date: 31.OCT.2012 06:24:45

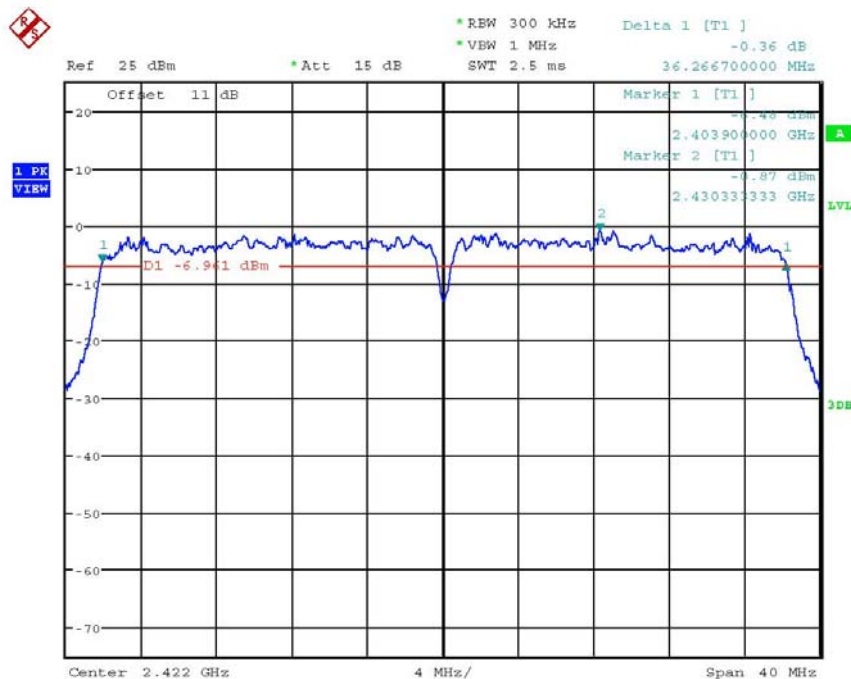


6DB BANDWIDTH 902.11N 20MHZ CH11
Date: 31.OCT.2012 06:25:14

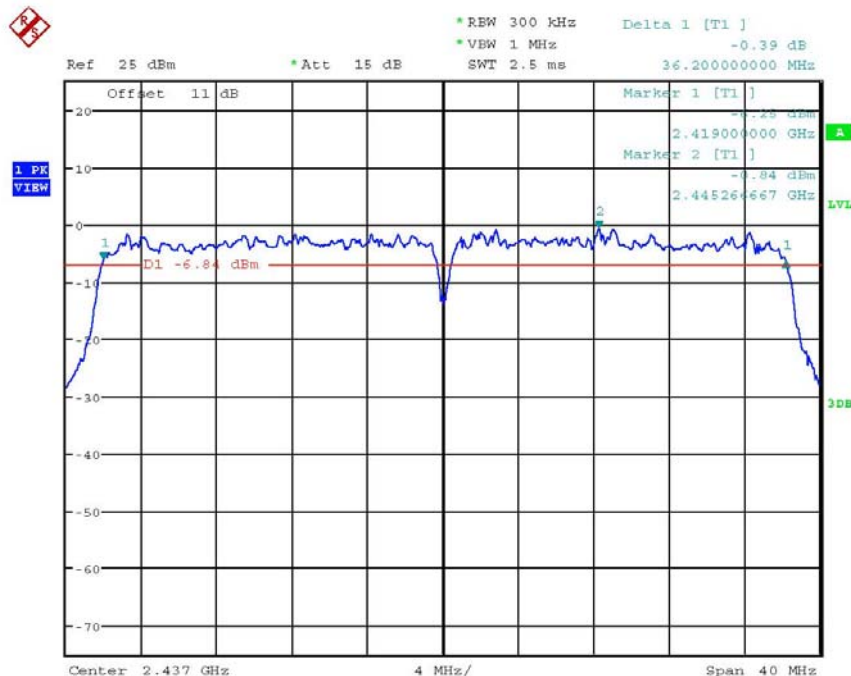


Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



6DB BANDWIDTH 802.11N 40MHZ CH01
Date: 31.OCT.2012 06:25:52

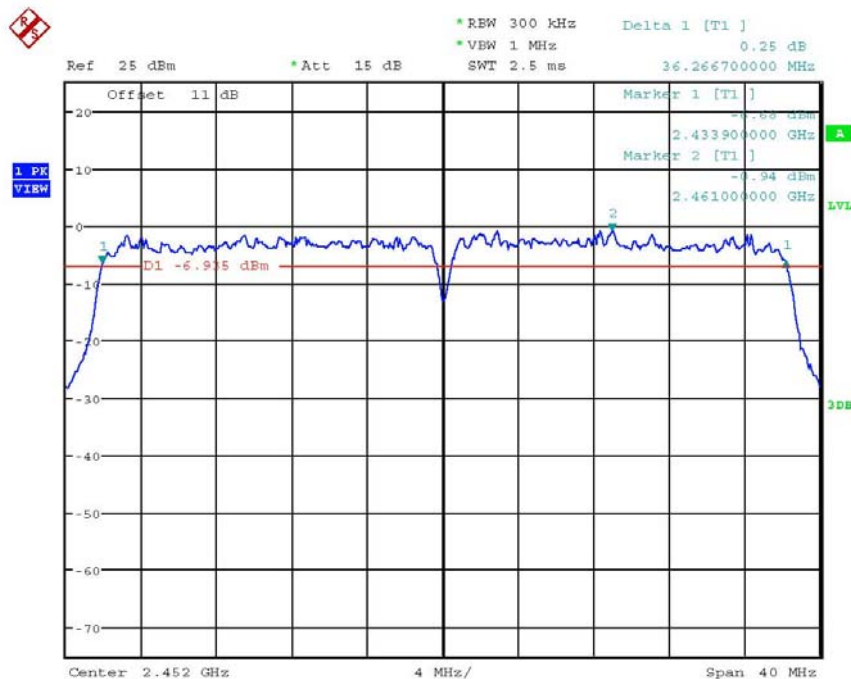


6DB BANDWIDTH 802.11N 40MHZ CH04
Date: 31.OCT.2012 06:26:27



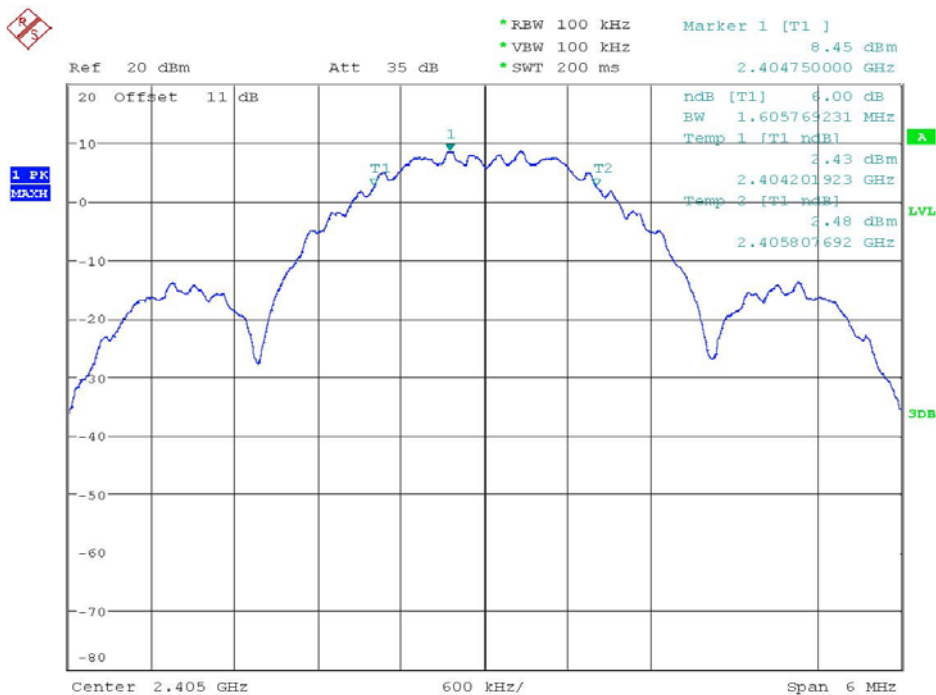
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



6DB BANDWIDTH 802.11N 40MHZ CH07
Date: 31.OCT.2012 06:26:56

ZIGBEE

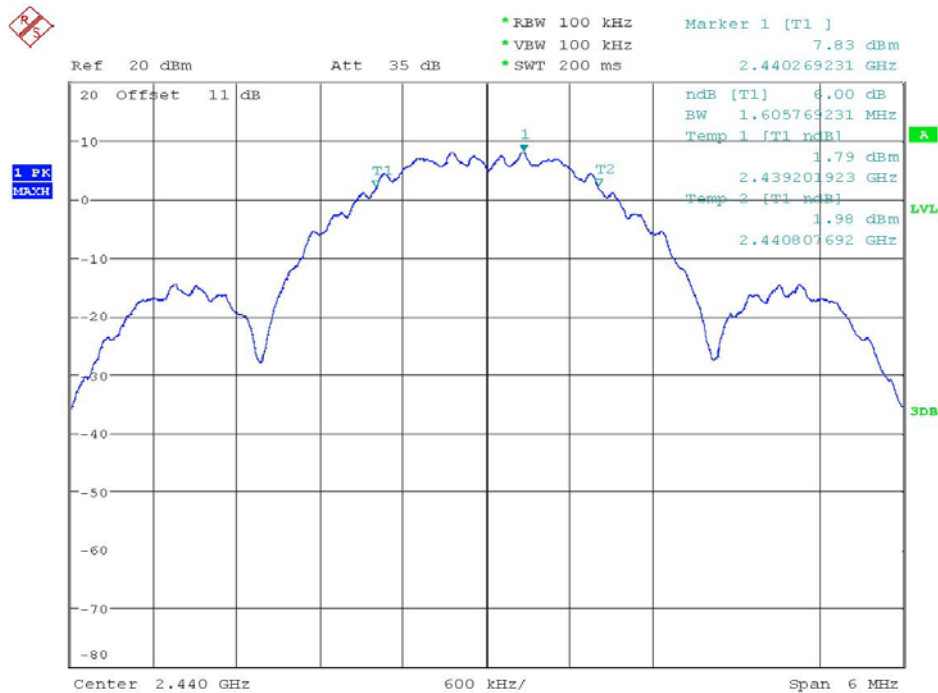


6DB BANDWIDTH 2405MHz
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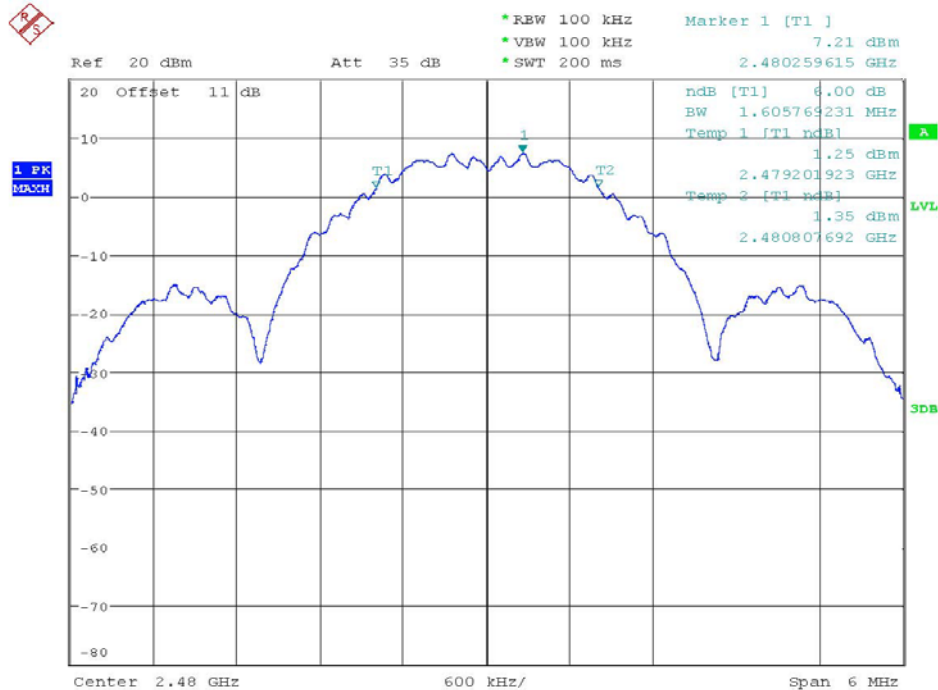
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



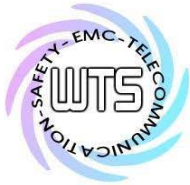
6DB BANDWIDTH 2440MHz

Date: 5.DEC.2012 09:09:40



6DB BANDWIDTH 2480MHz

Date: 5.DEC.2012 09:09:06



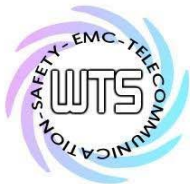
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21209-12734-C-1

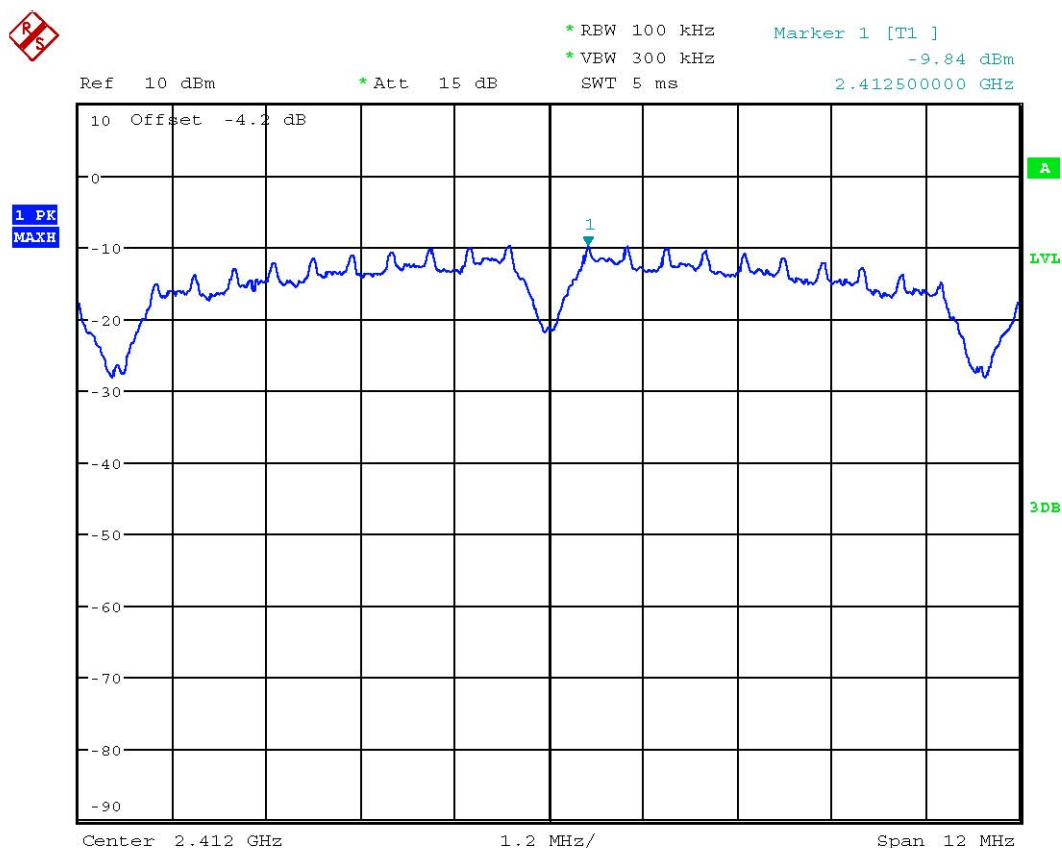
FCC ID: Q7A65000W0

3.8 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.

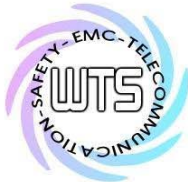
The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

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POWER DENSITY 802.11B CH01

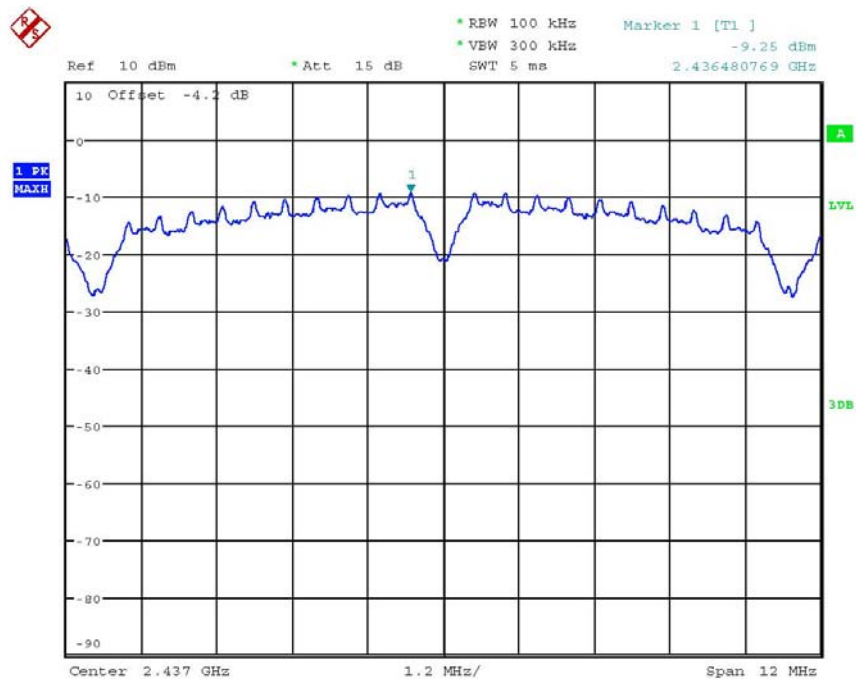
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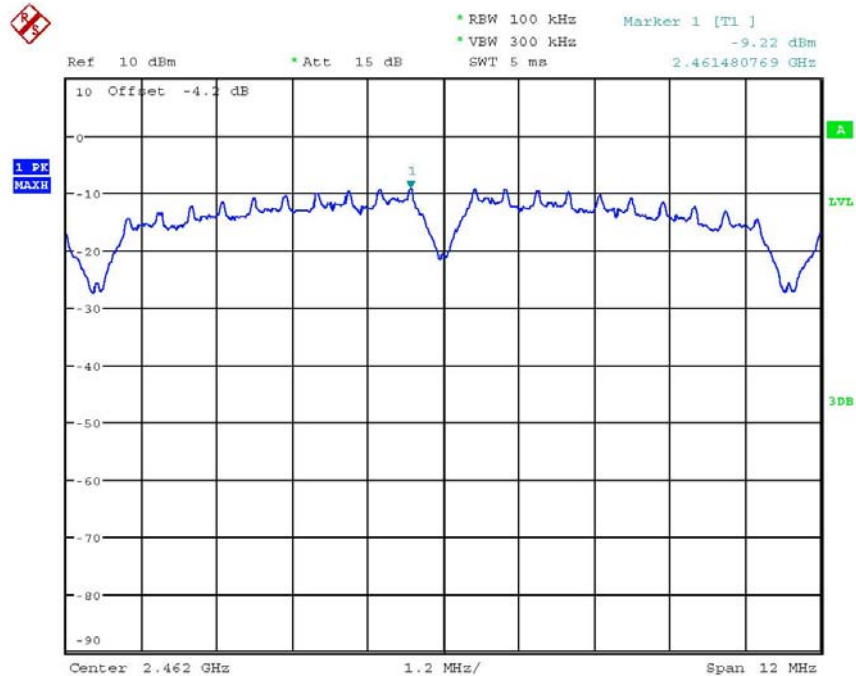
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

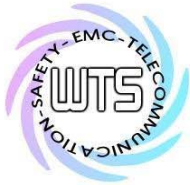
FCC ID: Q7A65000W0



POWER DENSITY 802.11B CH06
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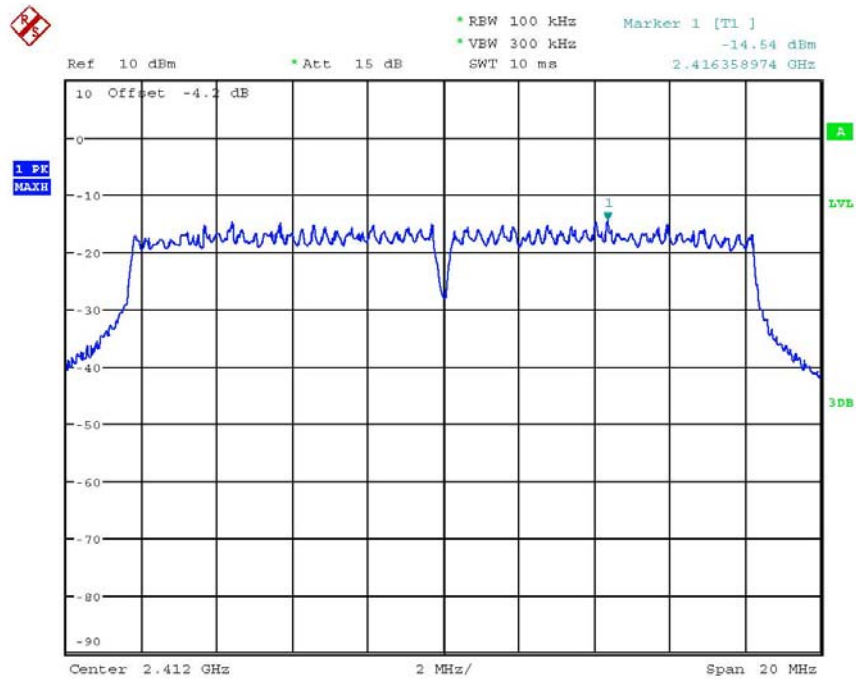


POWER DENSITY 802.11B CH11
Date: 31.OCT.2012 06:32:38

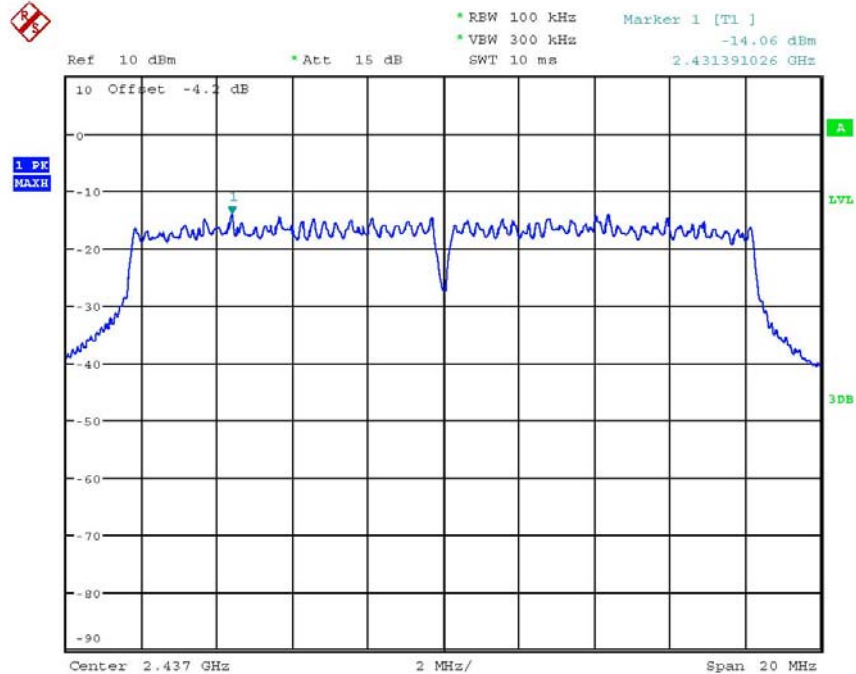


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



POWER DENSITY 802.11G CH01
Date: 31.OCT.2012 06:33:14



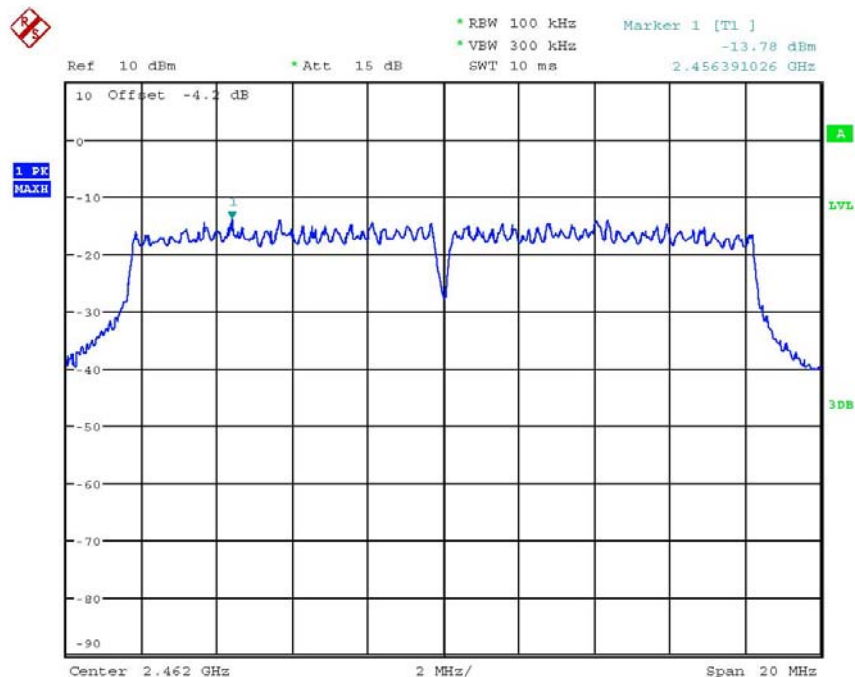
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Date: 31.OCT.2012 06:33:51



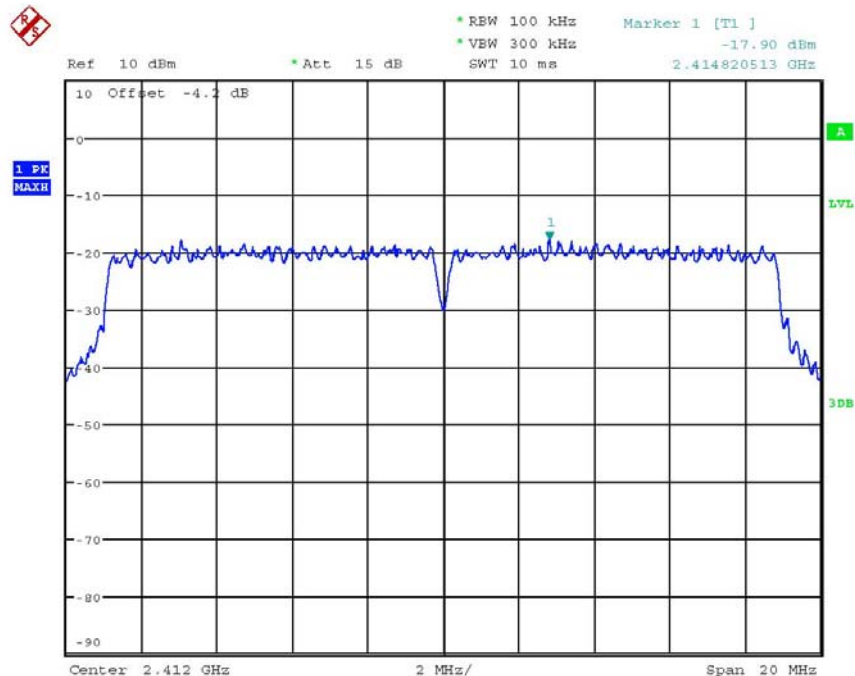
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

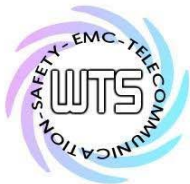
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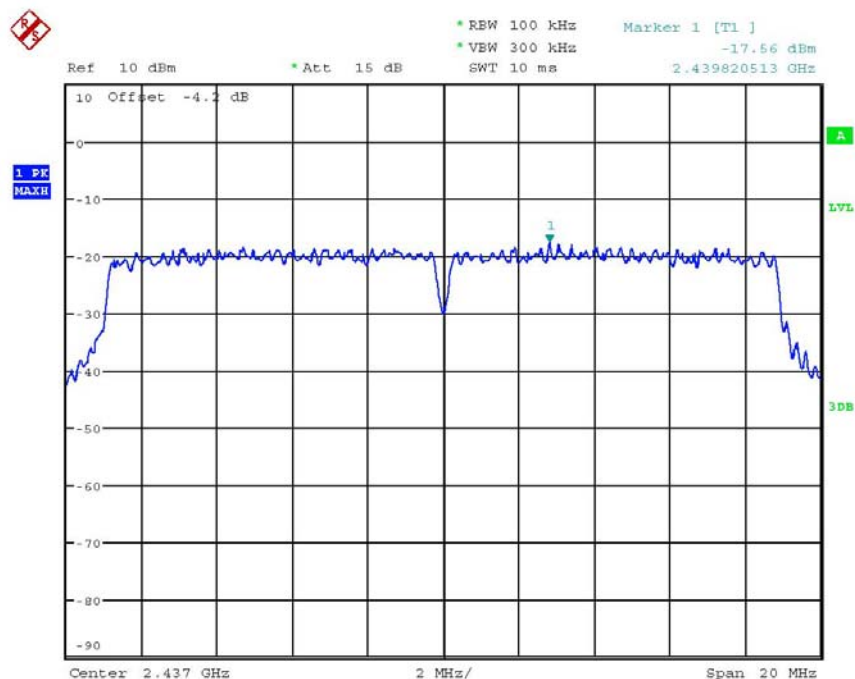


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Date: 31.OCT.2012 06:35:15



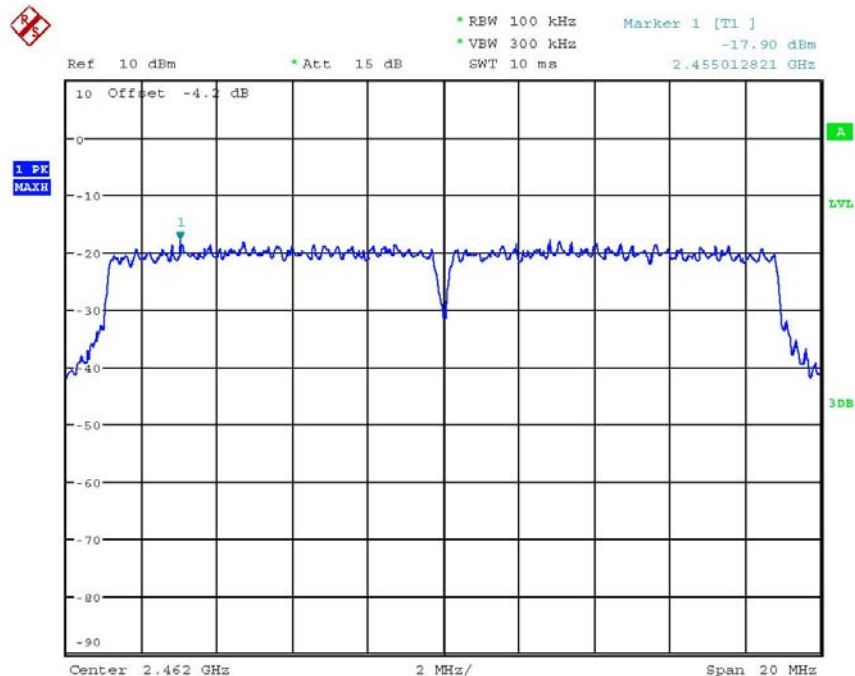
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0



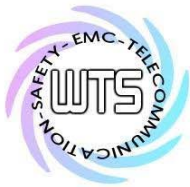
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Date: 31.OCT.2012 06:35:51



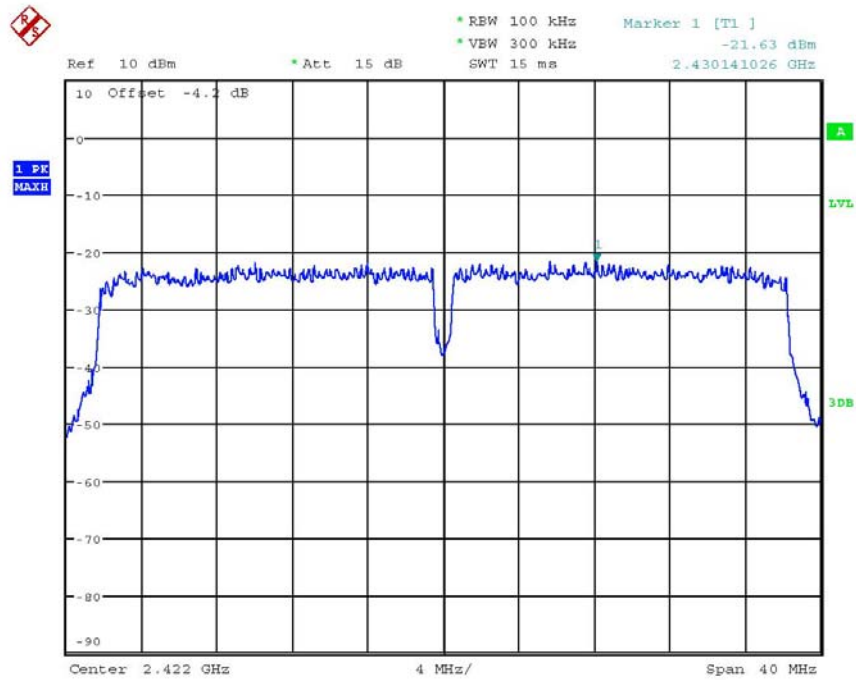
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Date: 31.OCT.2012 06:36:21

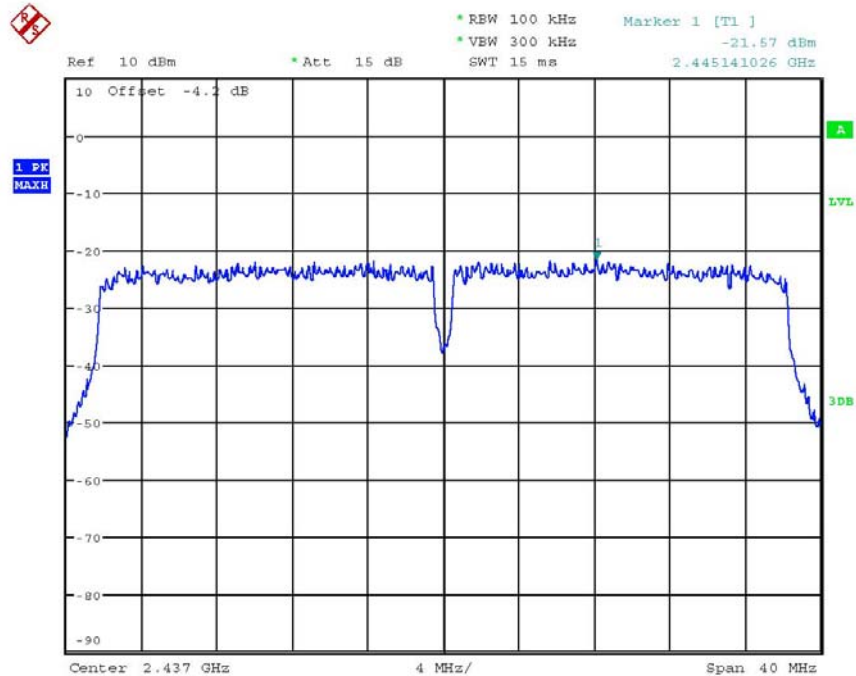


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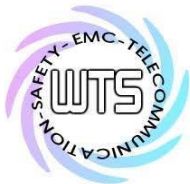
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FCC ID: Q7A65000W0



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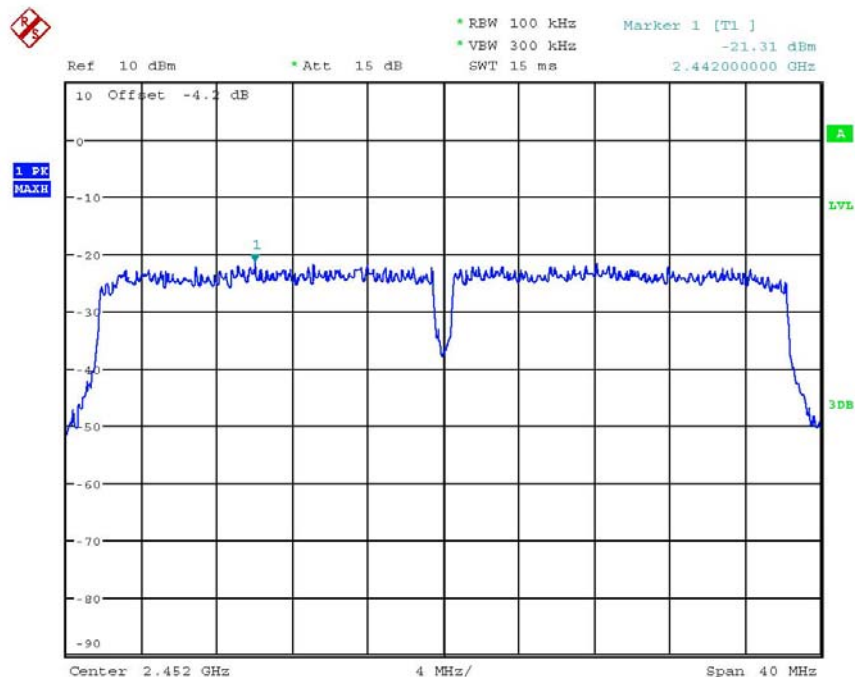


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Date: 31.OCT.2012 06:37:35



Registration number: W6M21209-12734-C-1

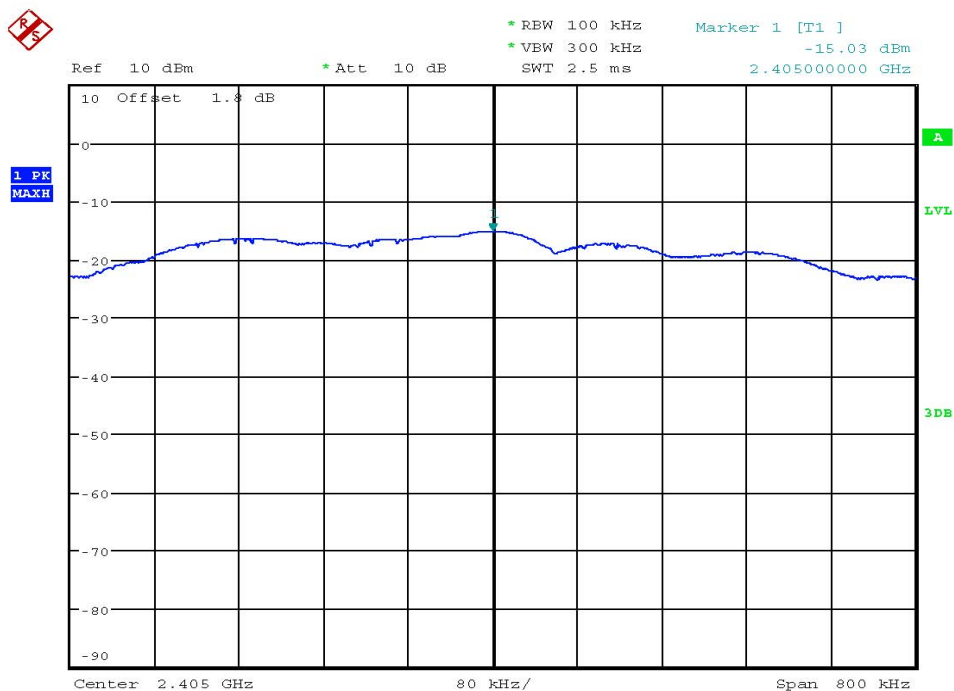
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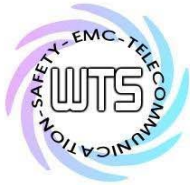
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ZIGBEE

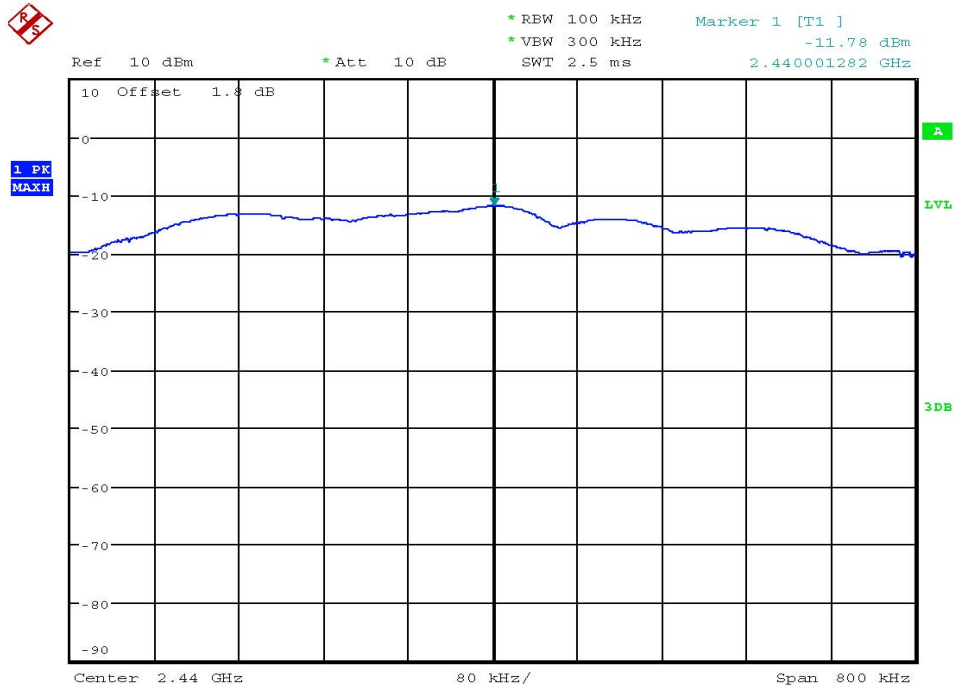


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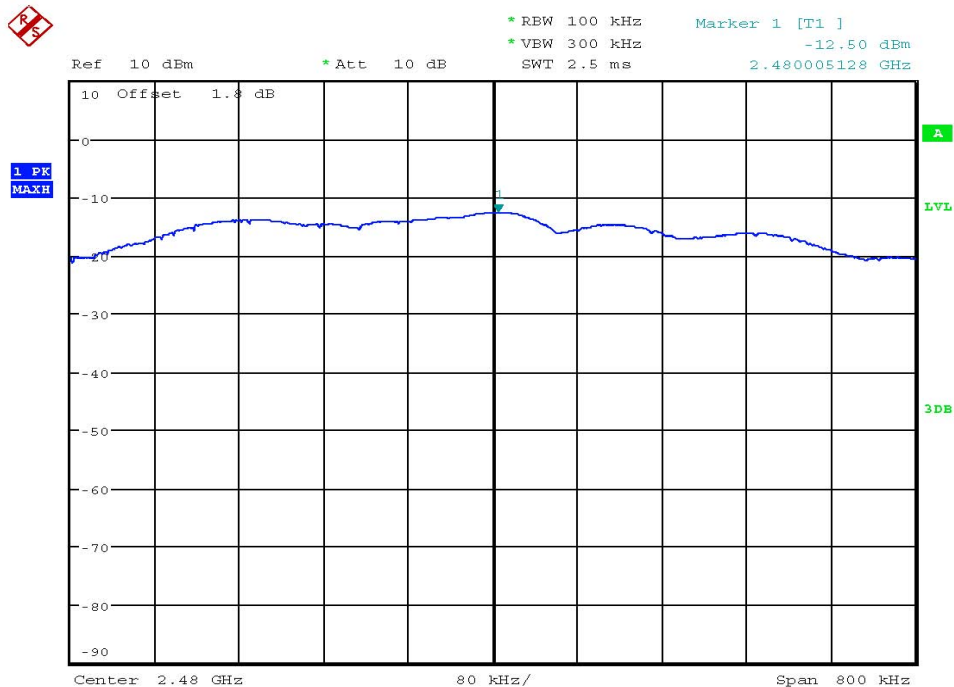
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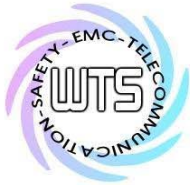
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FCC ID: Q7A65000W0



POWER DENSITY 2440MHz
Date: 5.DEC.2012 15:43:44



POWER DENSITY 2480MHz
Date: 5.DEC.2012 15:49:02



Worldwide Testing Services(Taiwan) Co., Ltd.

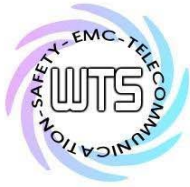
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483.5	8
5725-5850	8

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

3.9 Radiated Emission from Digital Part

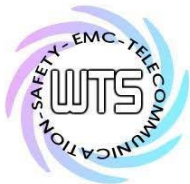
FCC Rule: 15.109

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Explanation: The test results are listed in the separated test report no.: W6M21209-12734-P-15B.

Test equipment used: ETSTW-RE 055, ETSTW-RE 064, ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030
ETSTW-RE 111



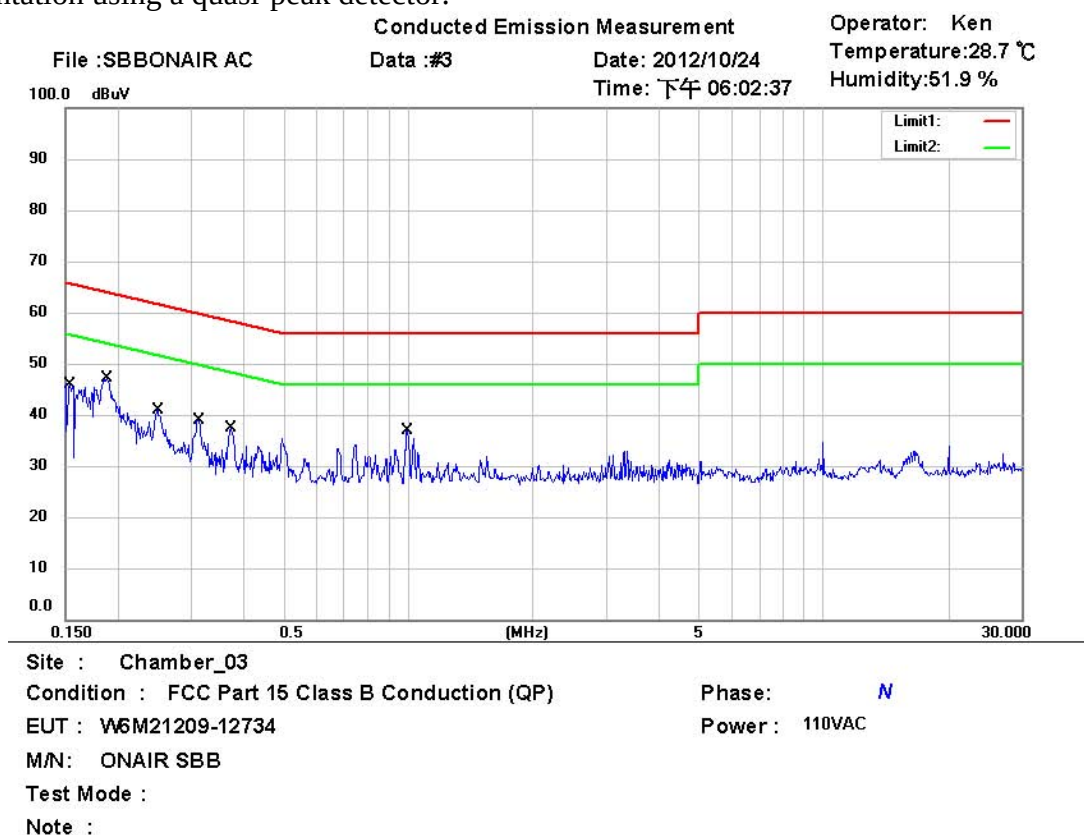
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

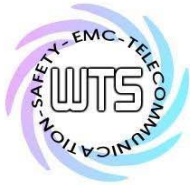
3.10 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

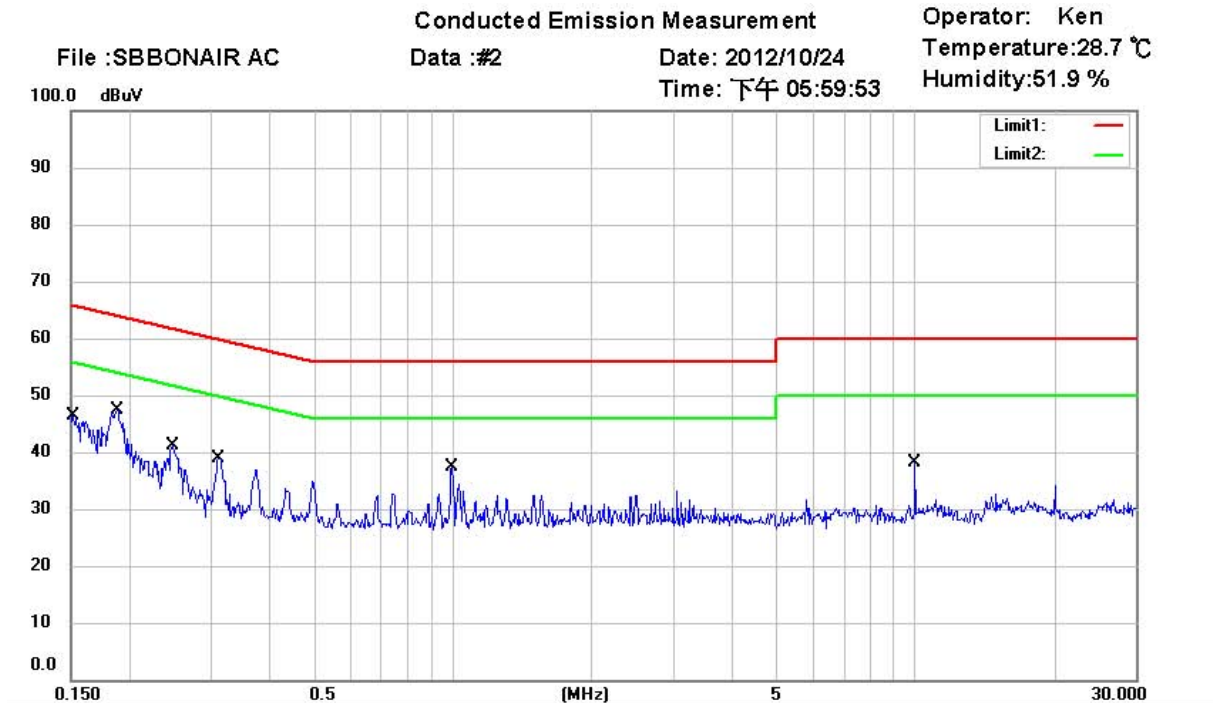


Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1537	24.21	QP	9.98	34.19	65.80	-31.61	
	0.1537	-1.18	AVG	9.98	8.80	55.80	-47.00	
*	0.1876	35.18	QP	9.98	45.16	64.14	-18.98	
	0.1876	20.58	AVG	9.98	30.56	54.14	-23.58	
	0.2482	27.47	QP	9.98	37.45	61.82	-24.37	
	0.2482	13.94	AVG	9.98	23.92	51.82	-27.90	
	0.3120	25.91	QP	9.99	35.90	59.92	-24.02	
	0.3120	10.72	AVG	9.99	20.71	49.92	-29.21	
	0.3720	23.44	QP	9.99	33.43	58.46	-25.03	
	0.3720	12.81	AVG	9.99	22.80	48.46	-25.66	
	0.9950	25.14	QP	9.96	35.10	56.00	-20.90	
	0.9950	15.05	AVG	9.96	25.01	46.00	-20.99	



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Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21209-12734

Power : 110VAC

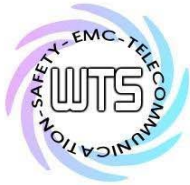
M/N: ONAIR SBB

Test Mode :

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1528	24.23	QP	10.08	34.31	65.85	-31.54	
	0.1528	1.19	AVG	10.08	11.27	55.85	-44.58	
*	0.1878	35.22	QP	10.09	45.31	64.13	-18.82	
	0.1878	20.41	AVG	10.09	30.50	54.13	-23.63	
	0.2478	27.33	QP	10.10	37.43	61.83	-24.40	
	0.2478	13.47	AVG	10.10	23.57	51.83	-28.26	
	0.3106	25.79	QP	10.10	35.89	59.95	-24.06	
	0.3106	11.40	AVG	10.10	21.50	49.95	-28.45	
	0.9972	23.74	QP	10.13	33.87	56.00	-22.13	
	0.9972	15.05	AVG	10.13	25.18	46.00	-20.82	
	10.0000	25.48	QP	10.52	36.00	60.00	-24.00	
	10.0000	1.43	AVG	10.52	11.95	50.00	-38.05	

- Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty = ± 1.10 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
6. Up Line: QP Limit Line, Down Line: Ave Limit Line.

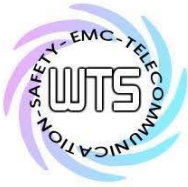


Registration number: W6M21209-12734-C-1
FCC ID: Q7A65000W0

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

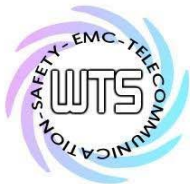
Test equipment used:ETSTW-CE 001, ETSTW-CE 004, ETSTW-CE 006, ETSTW-RE 045.



Appendix

Measurement diagrams

Spurious Emissions radiated



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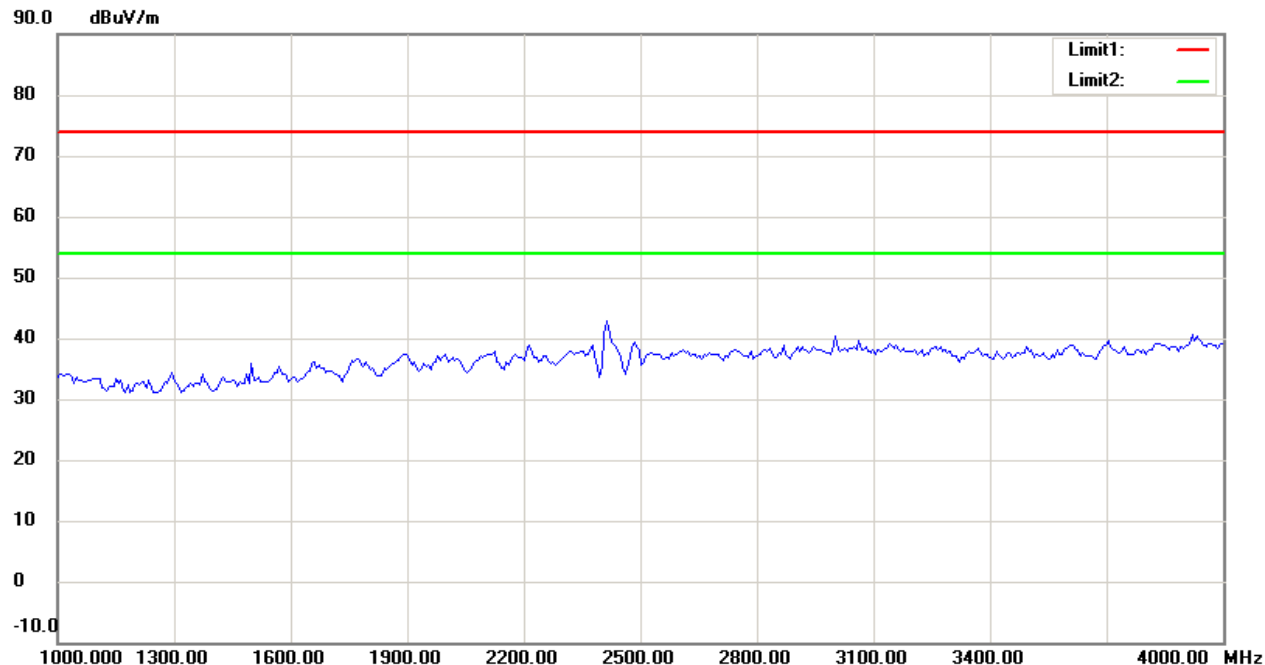
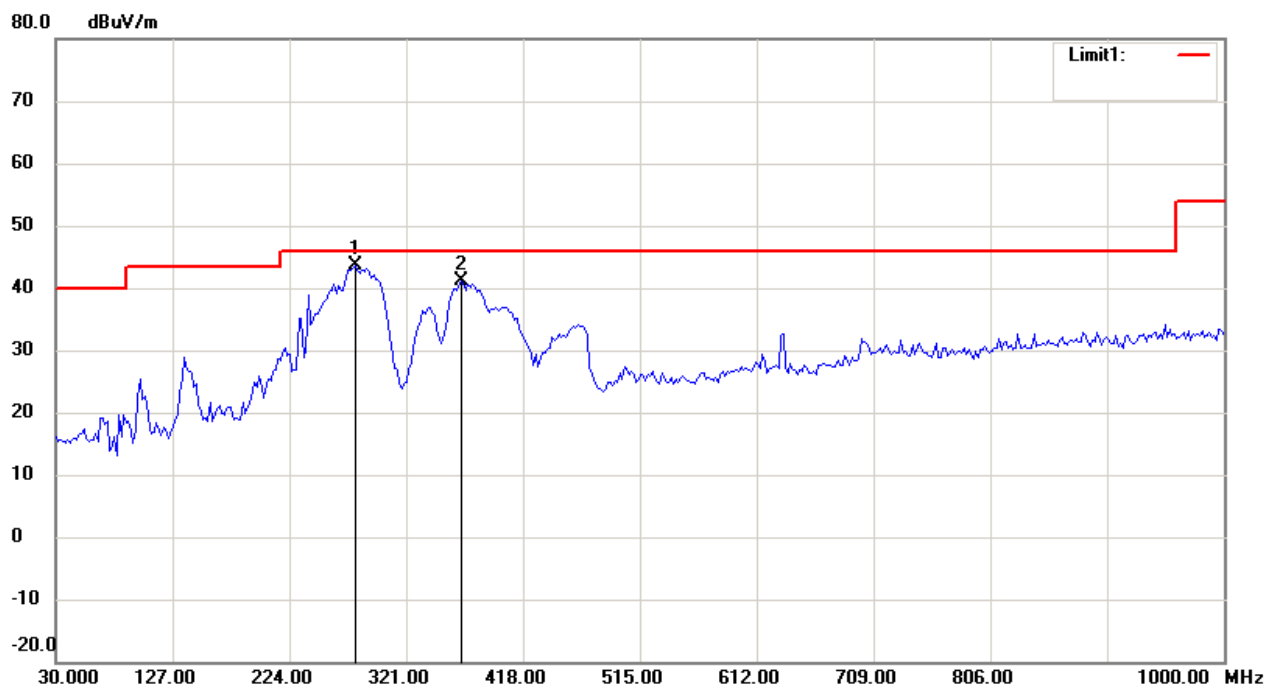
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Radiated Emission_TX

WLAN_802.11b CH1

Antenna Polarization H

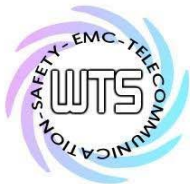


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

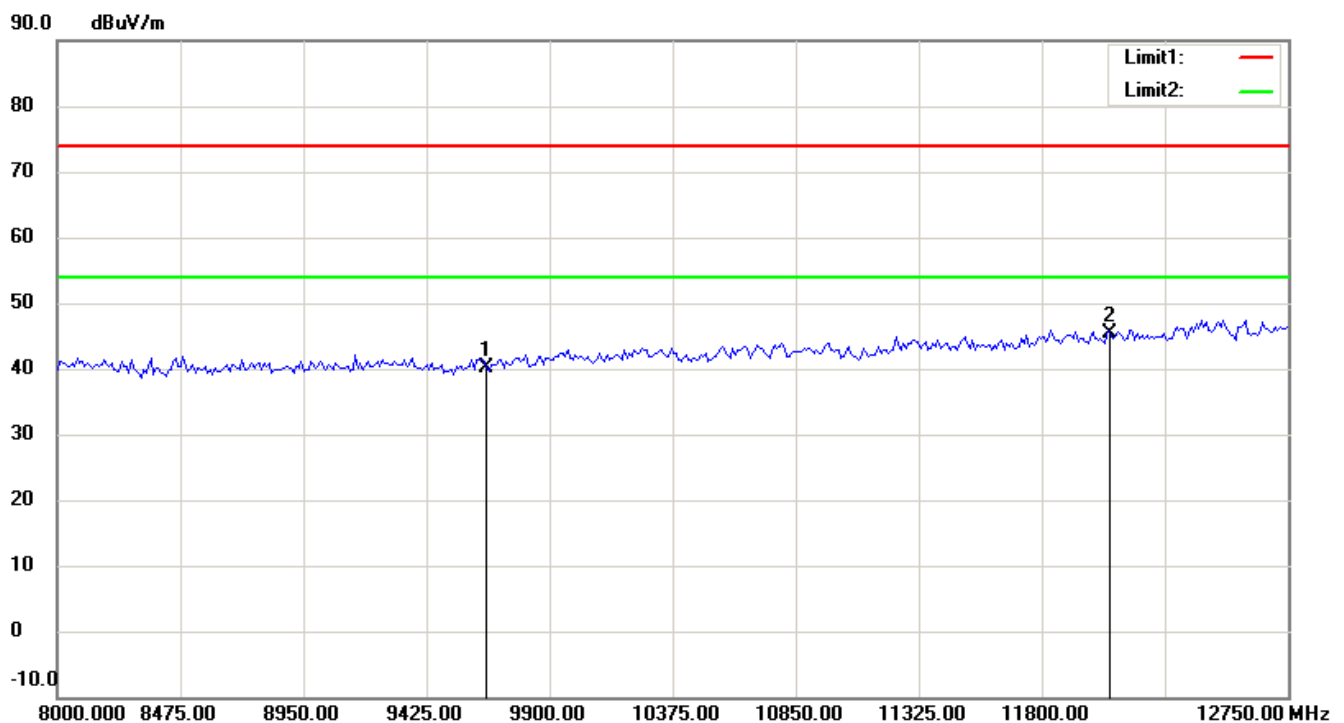
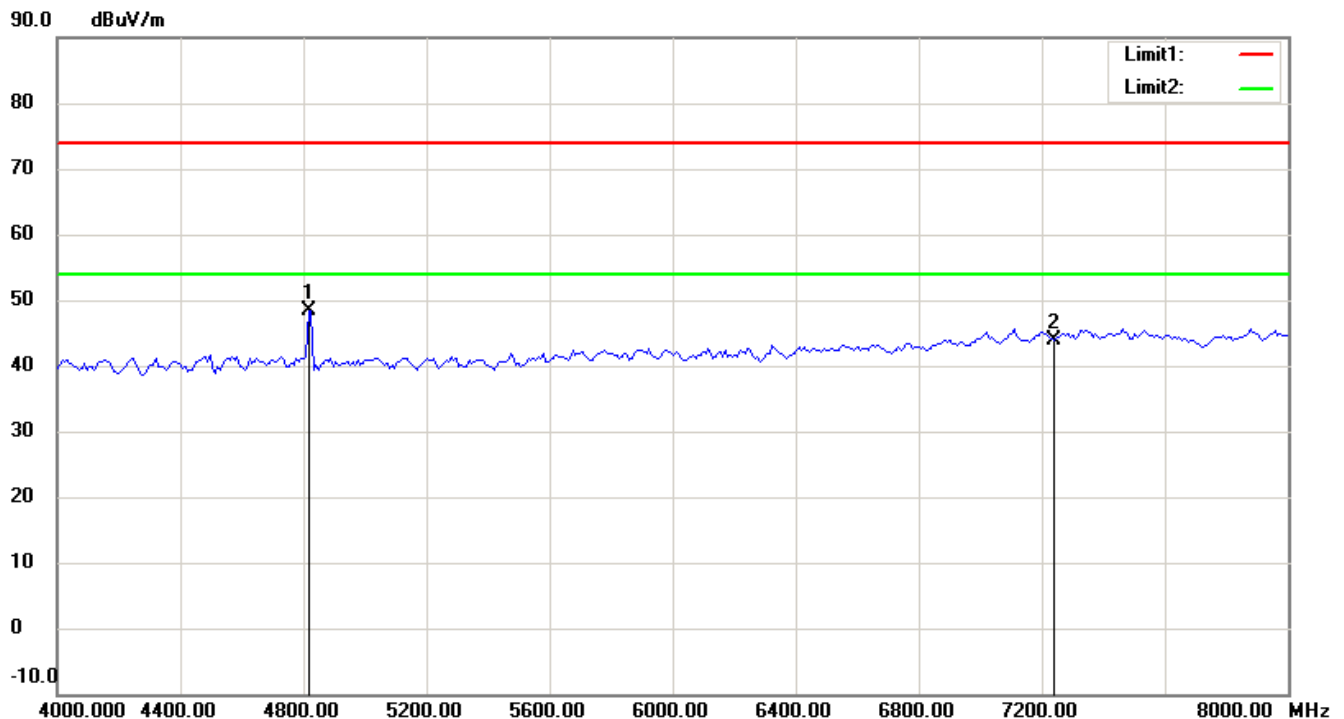
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

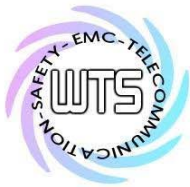
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

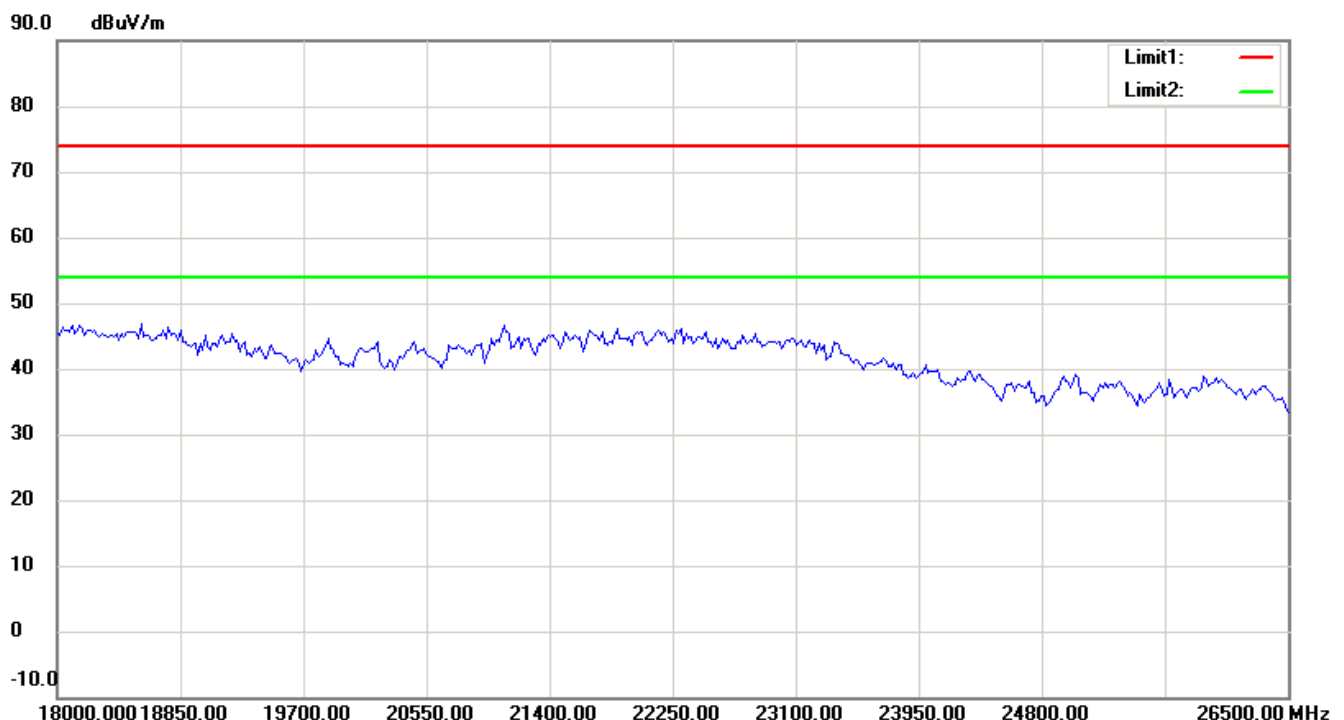
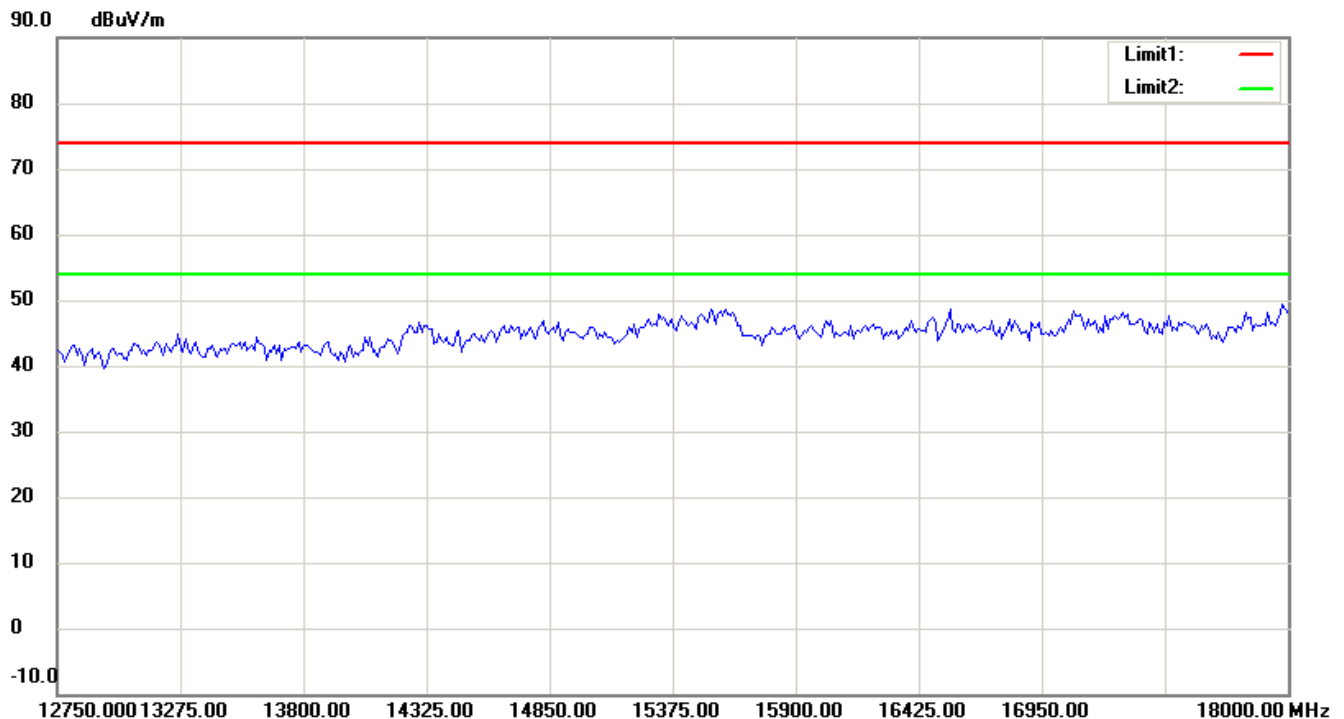
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

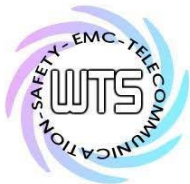
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

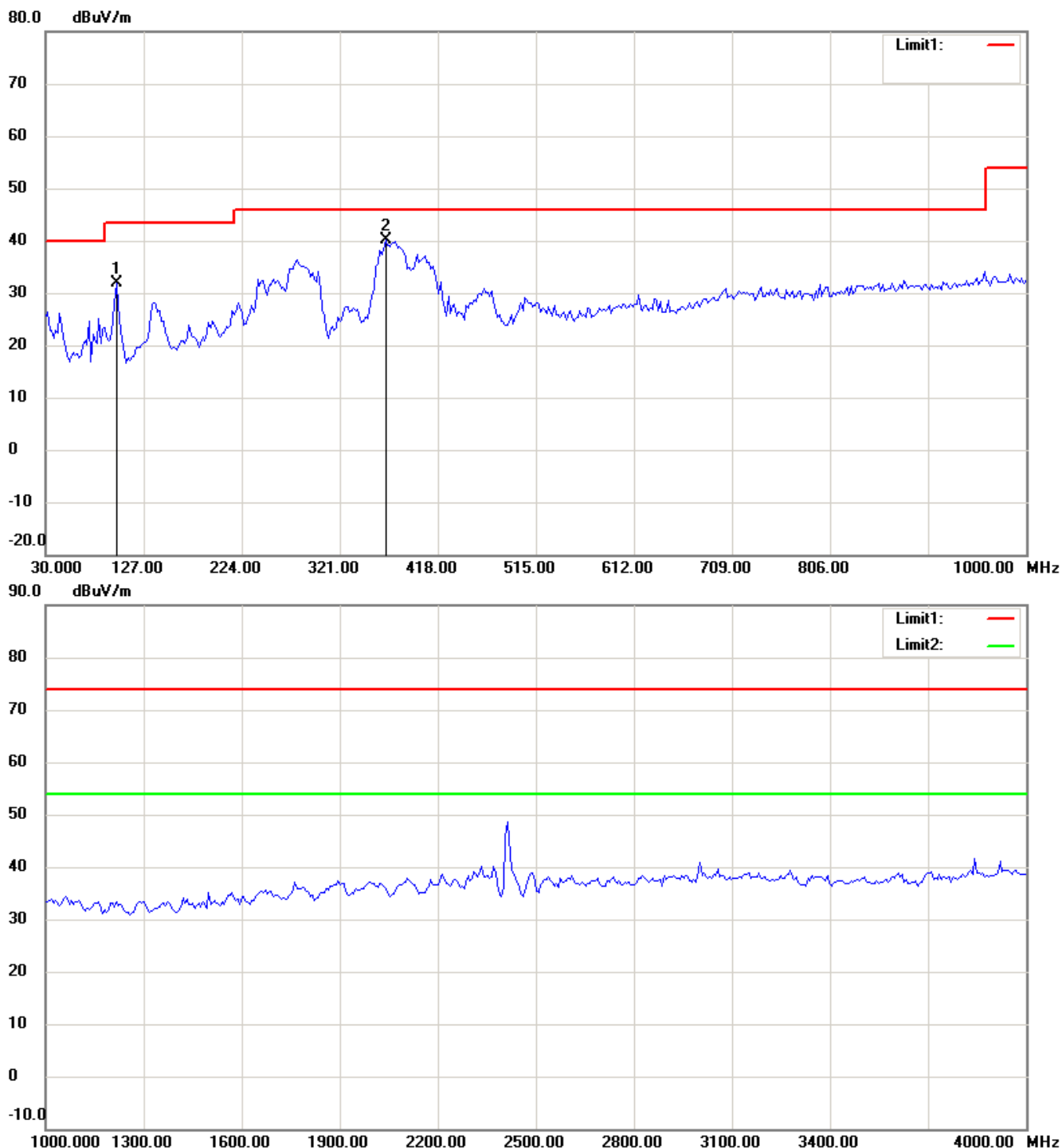


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

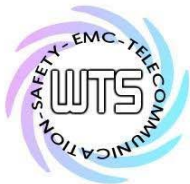


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

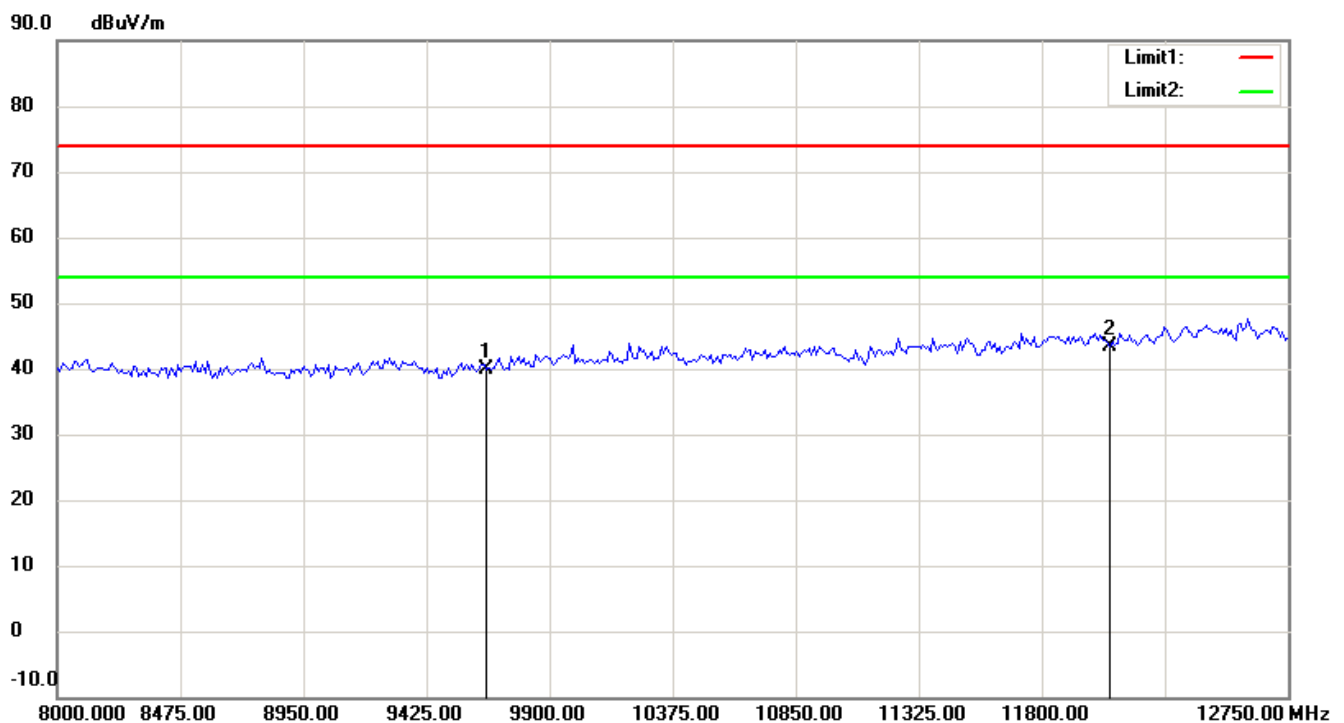
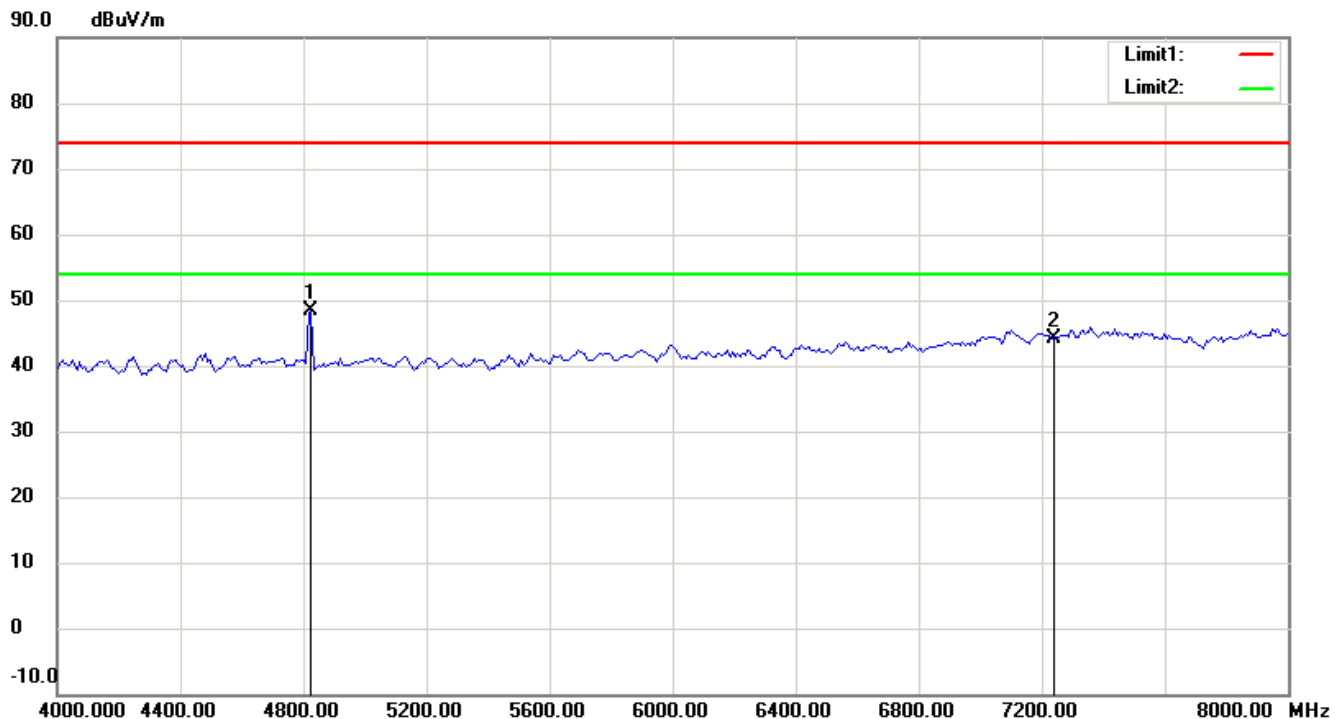
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2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

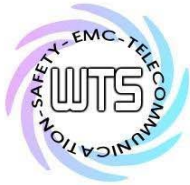
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

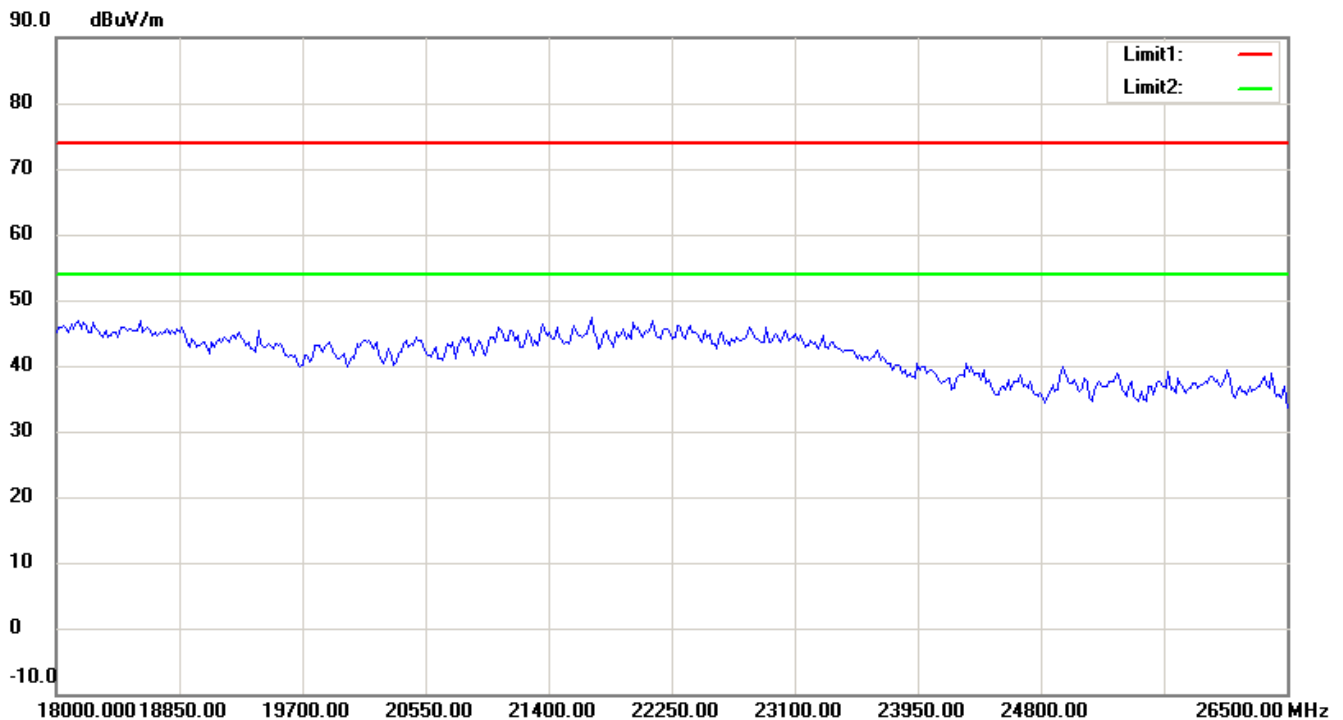
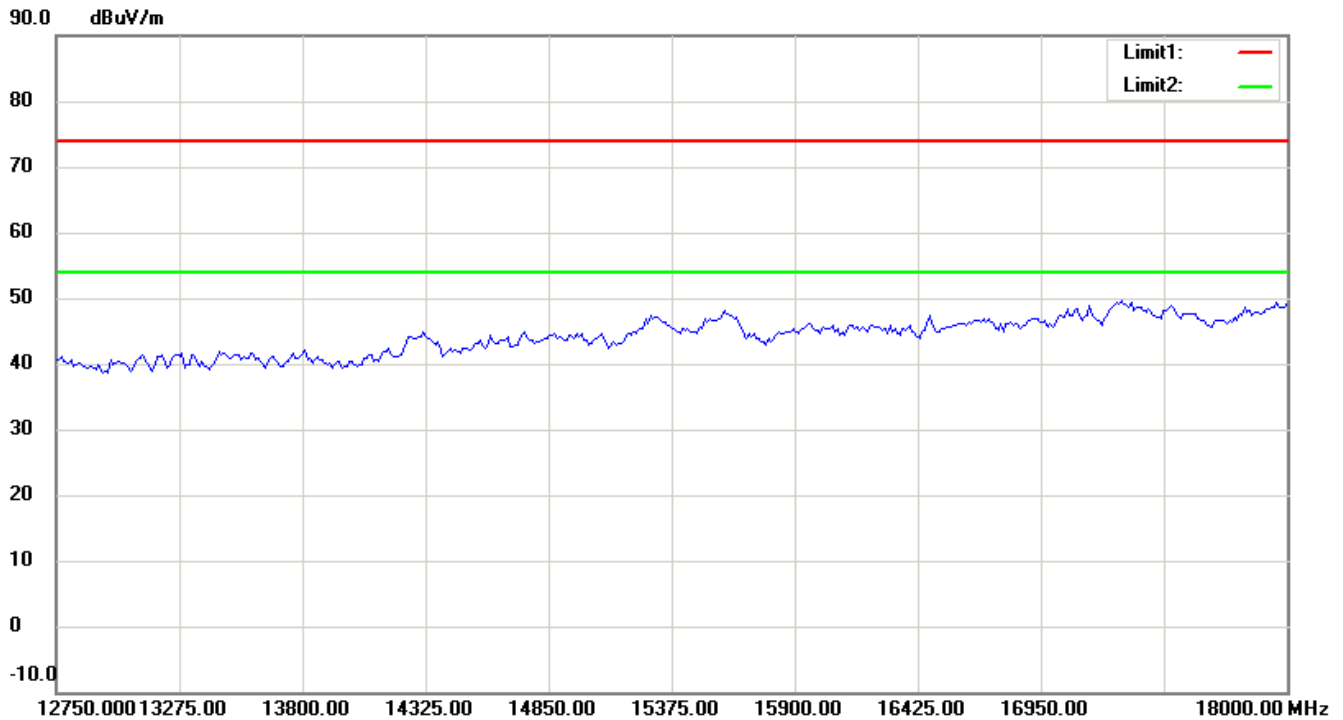
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2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

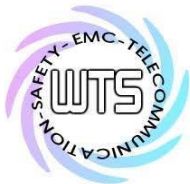
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

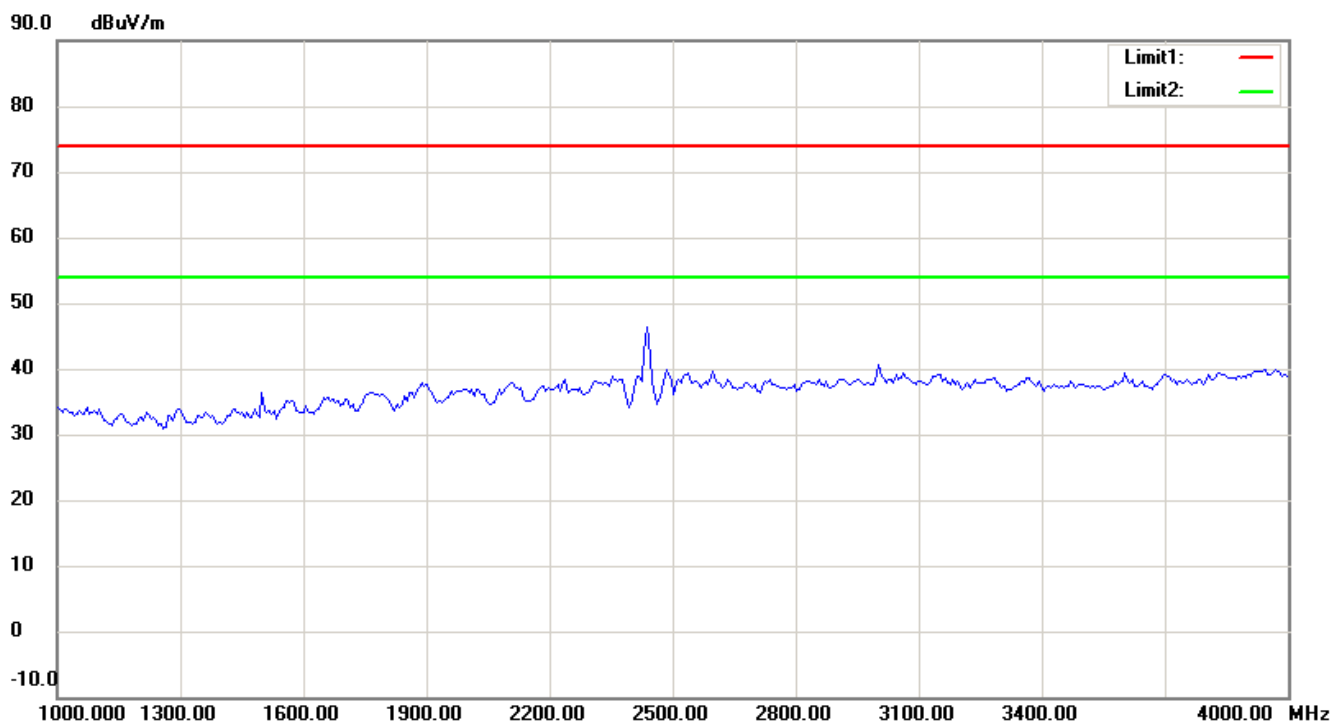
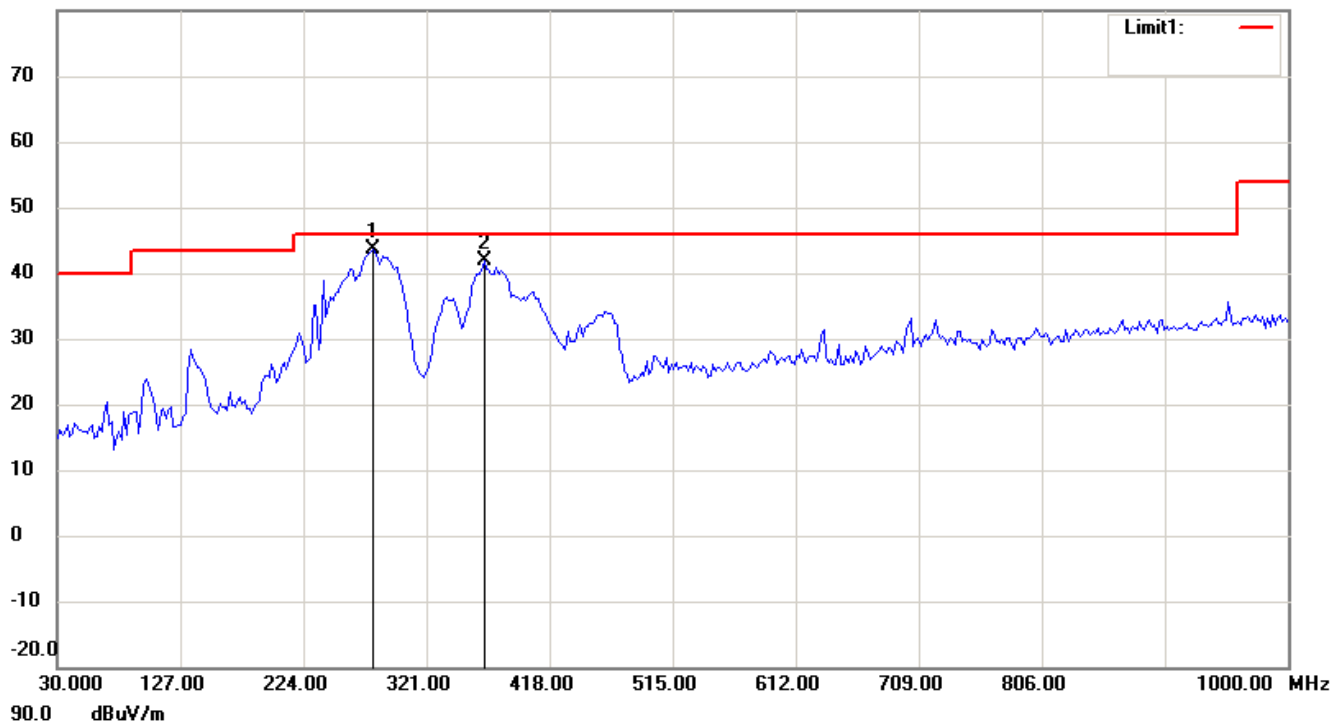
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FCC ID: Q7A65000W0

802.11b CH6

Antenna Polarization H

80.0 dBuV/m

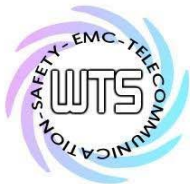


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

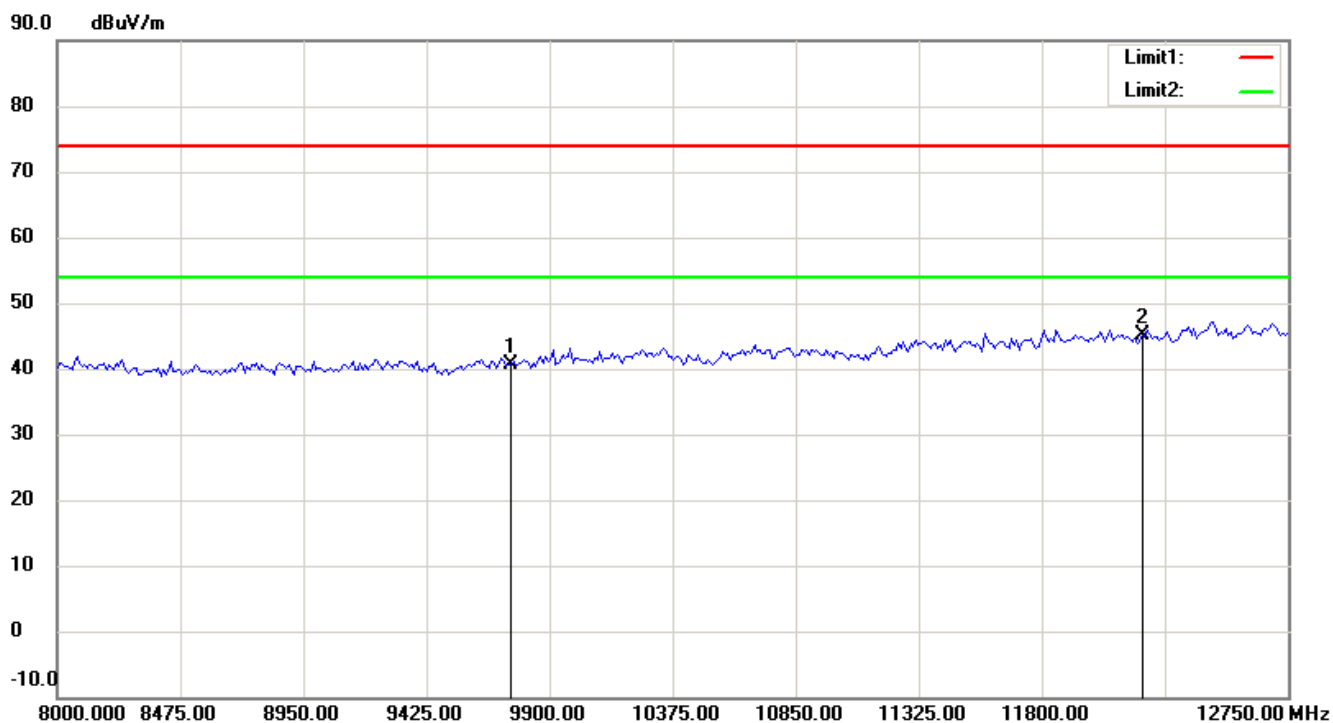
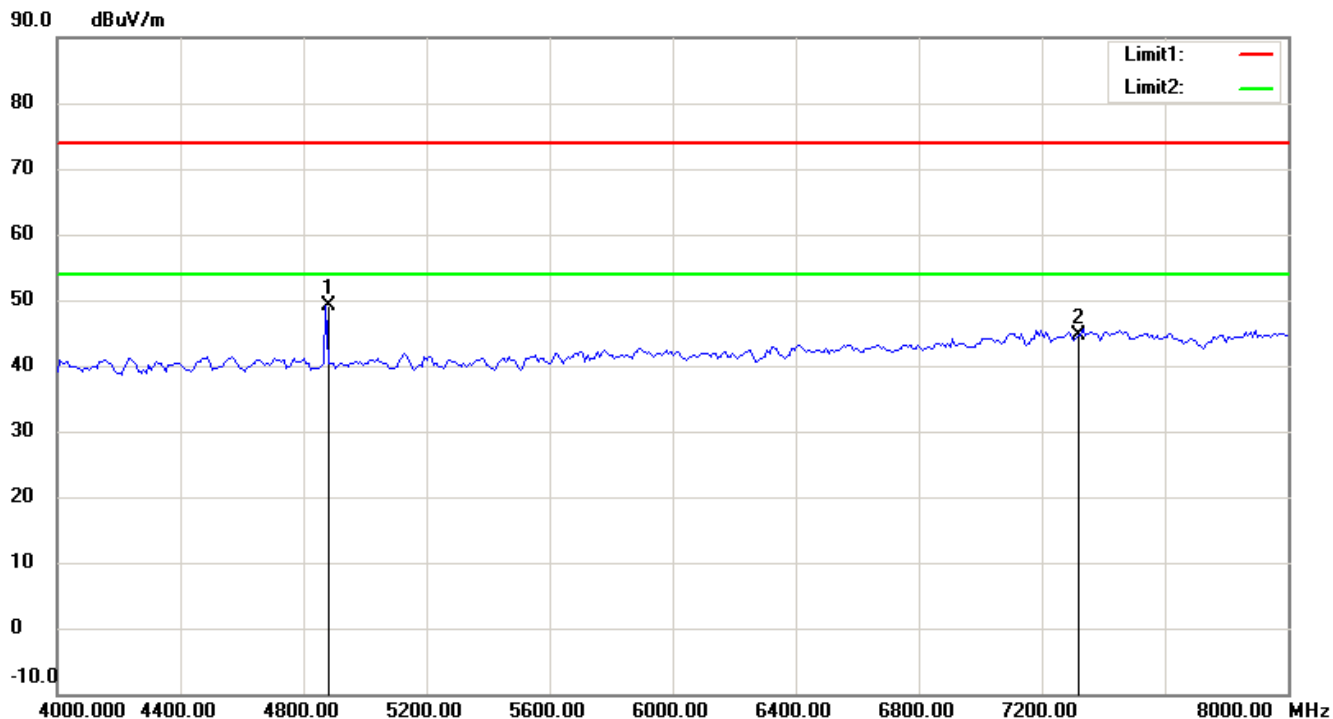
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

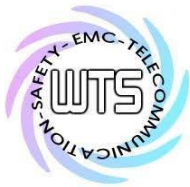
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

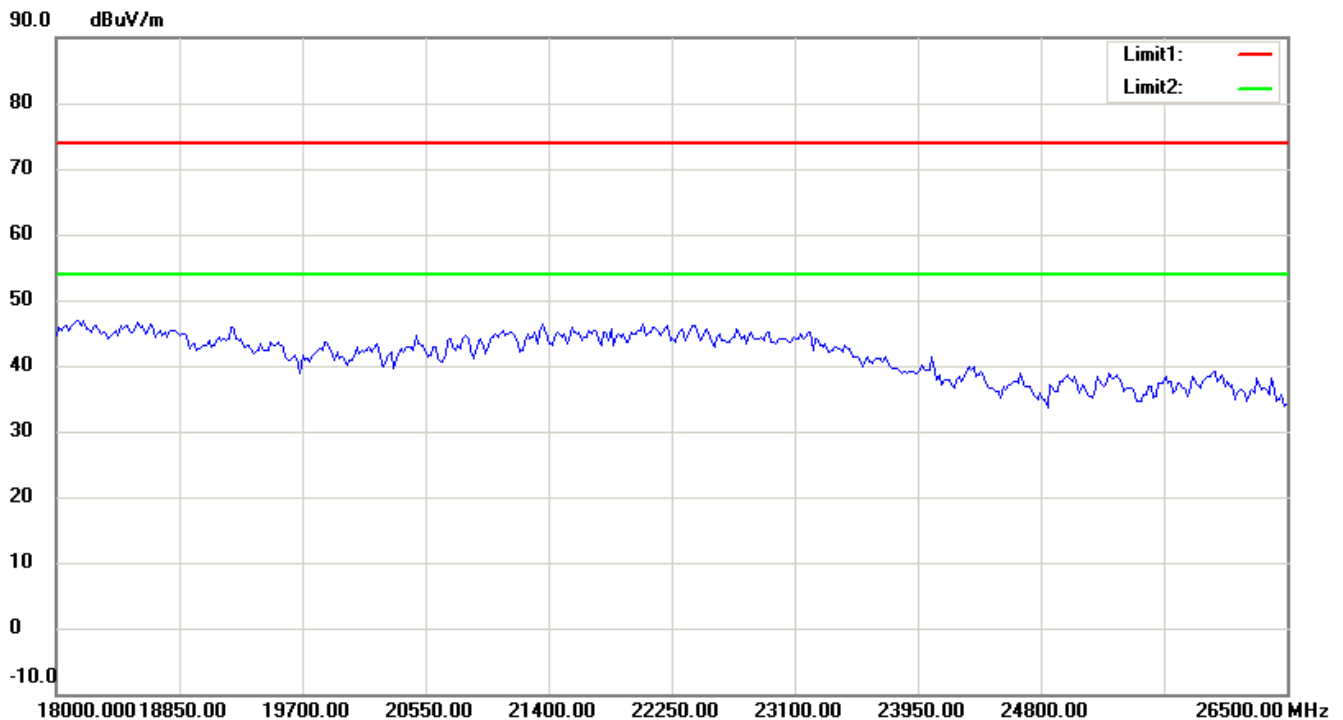
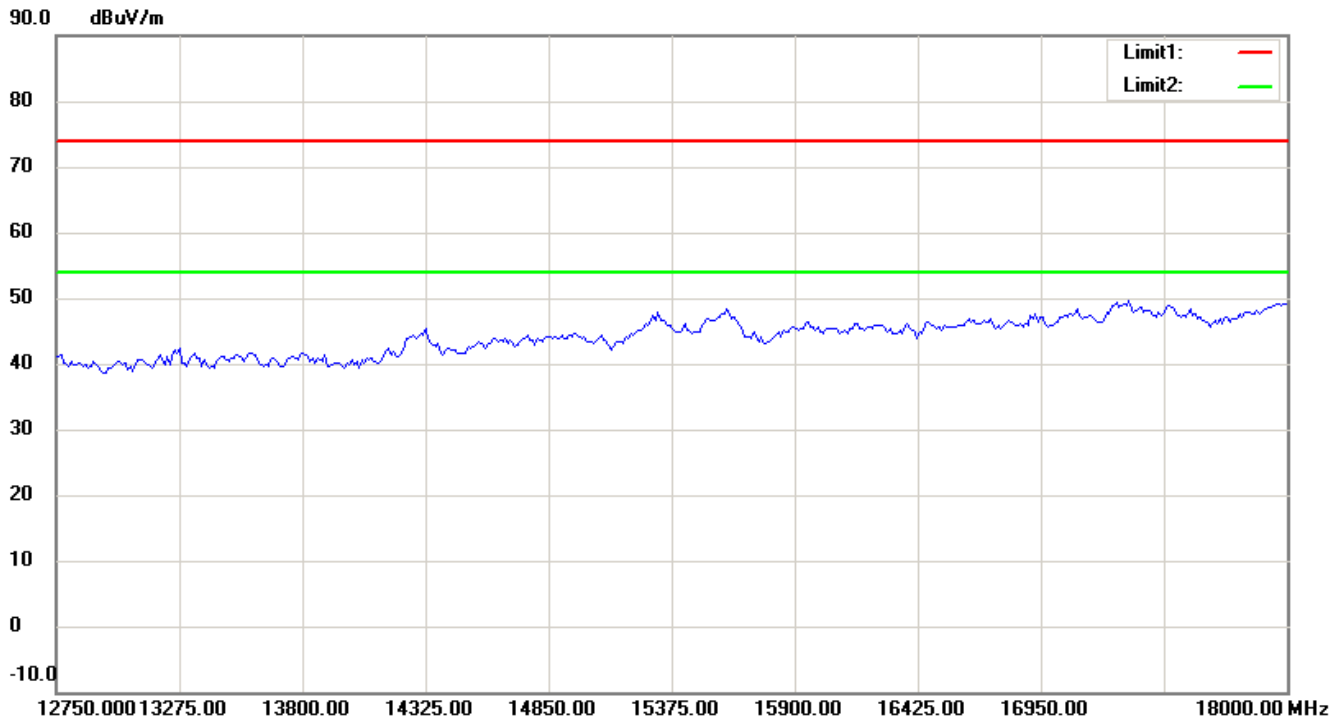
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

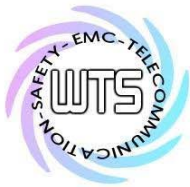
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

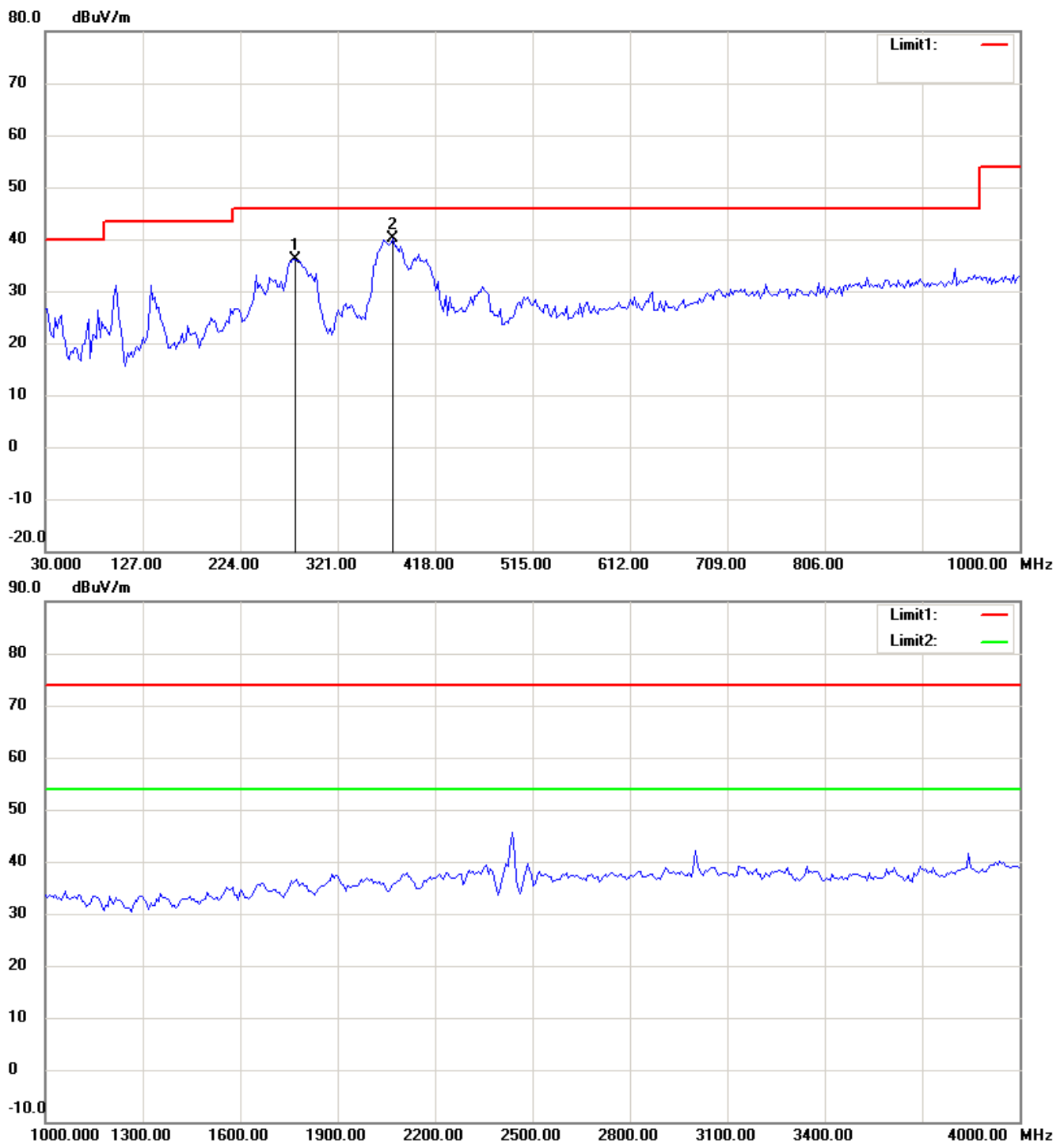
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2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

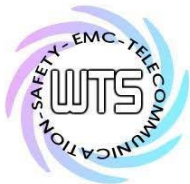


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

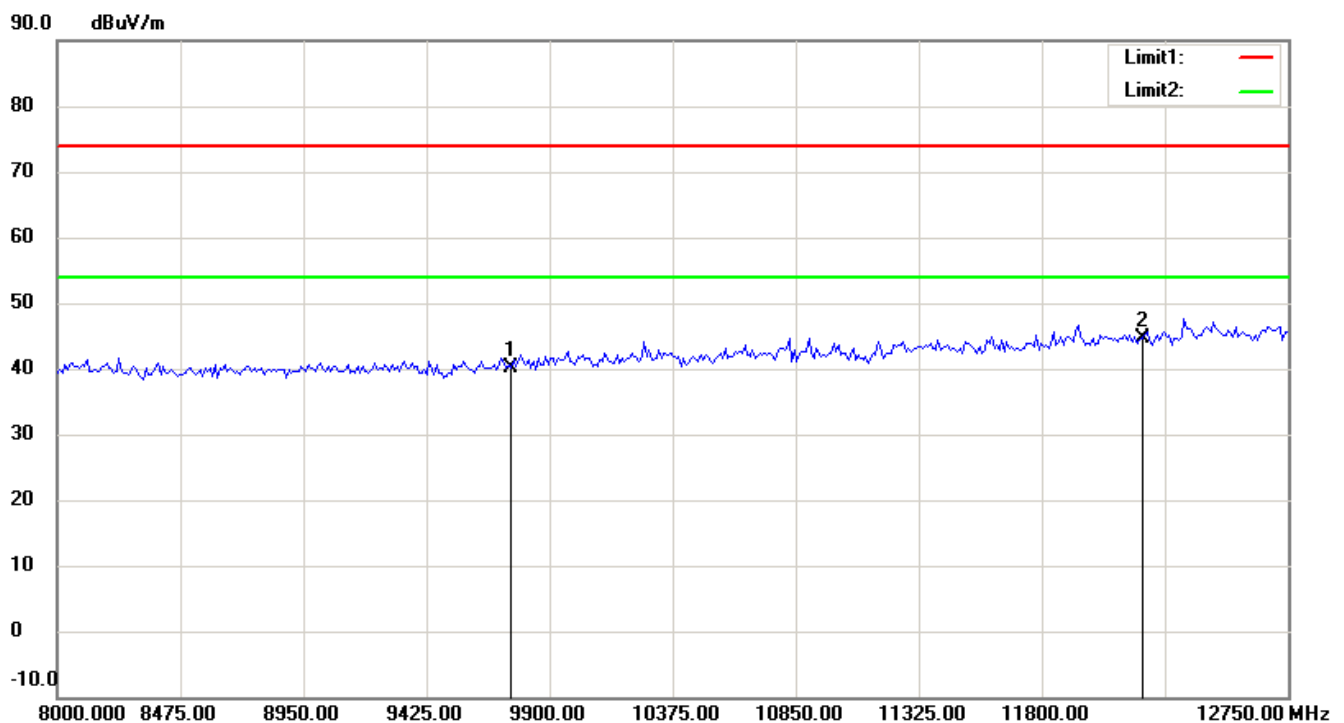
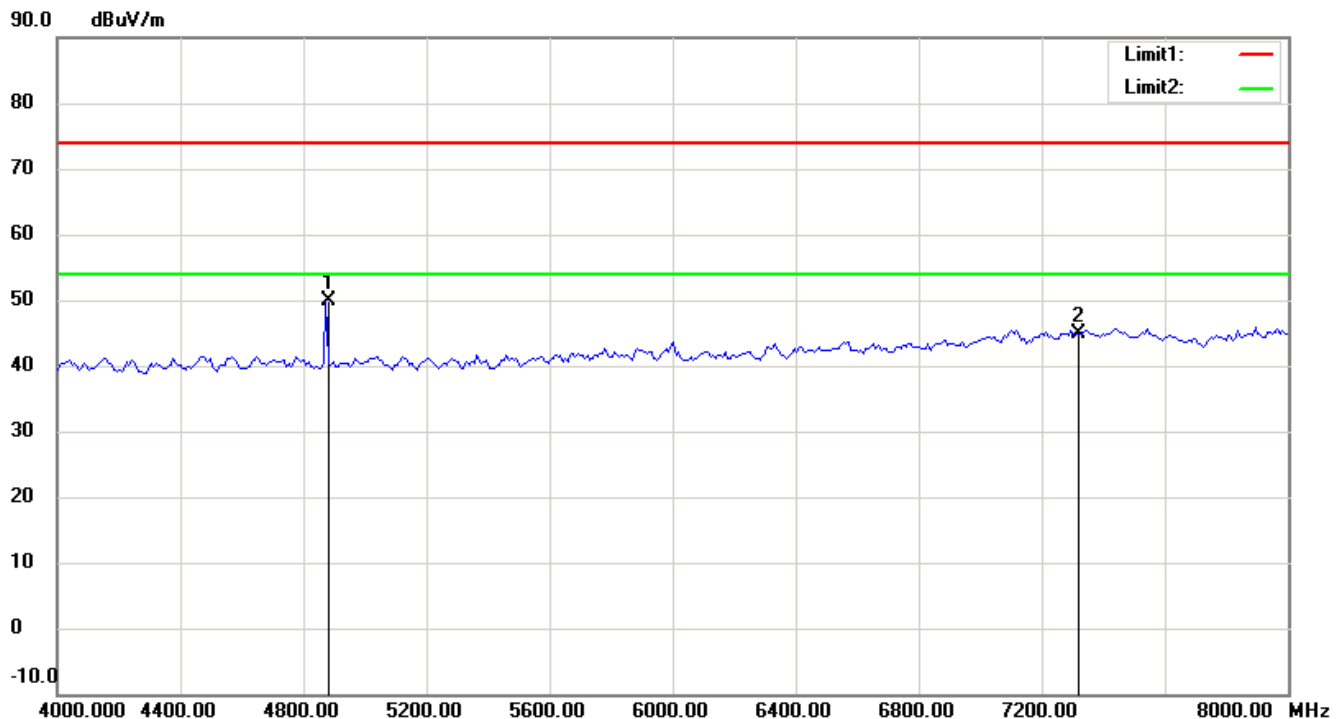
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2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

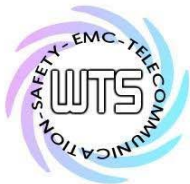
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

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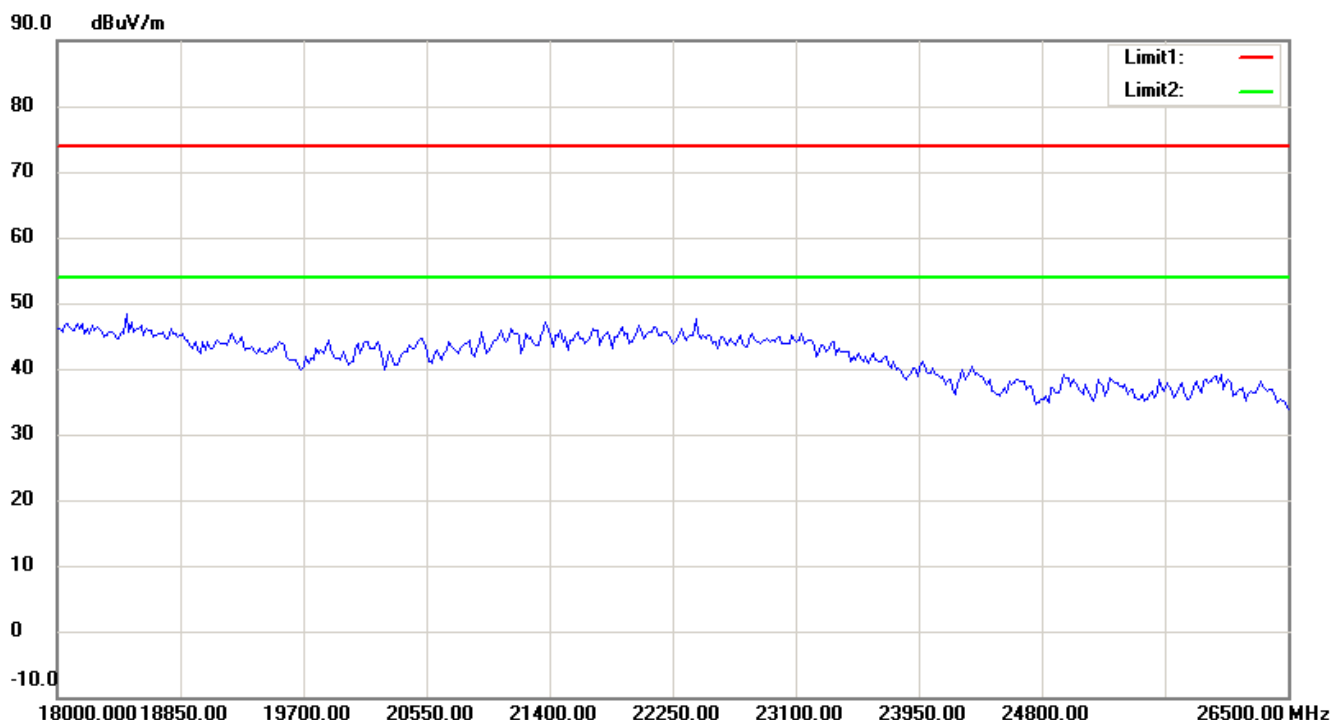
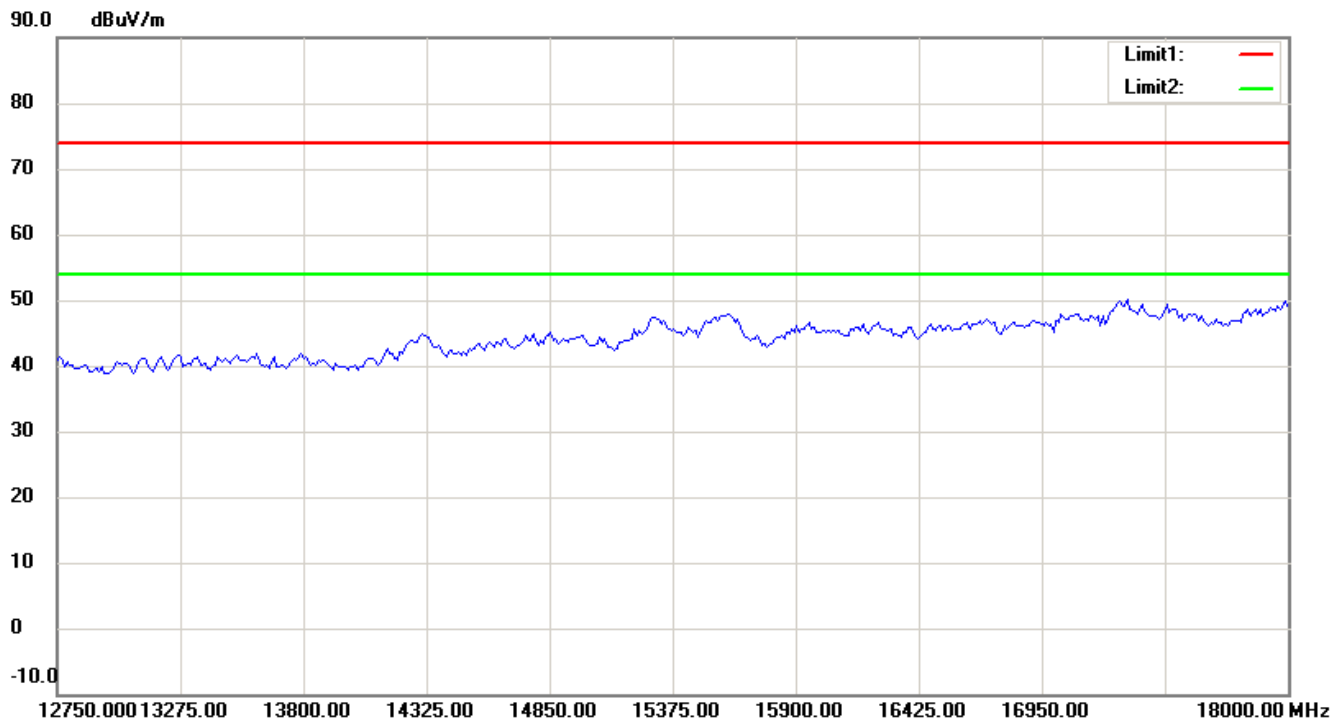
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

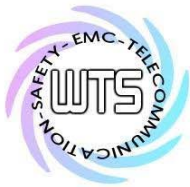
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

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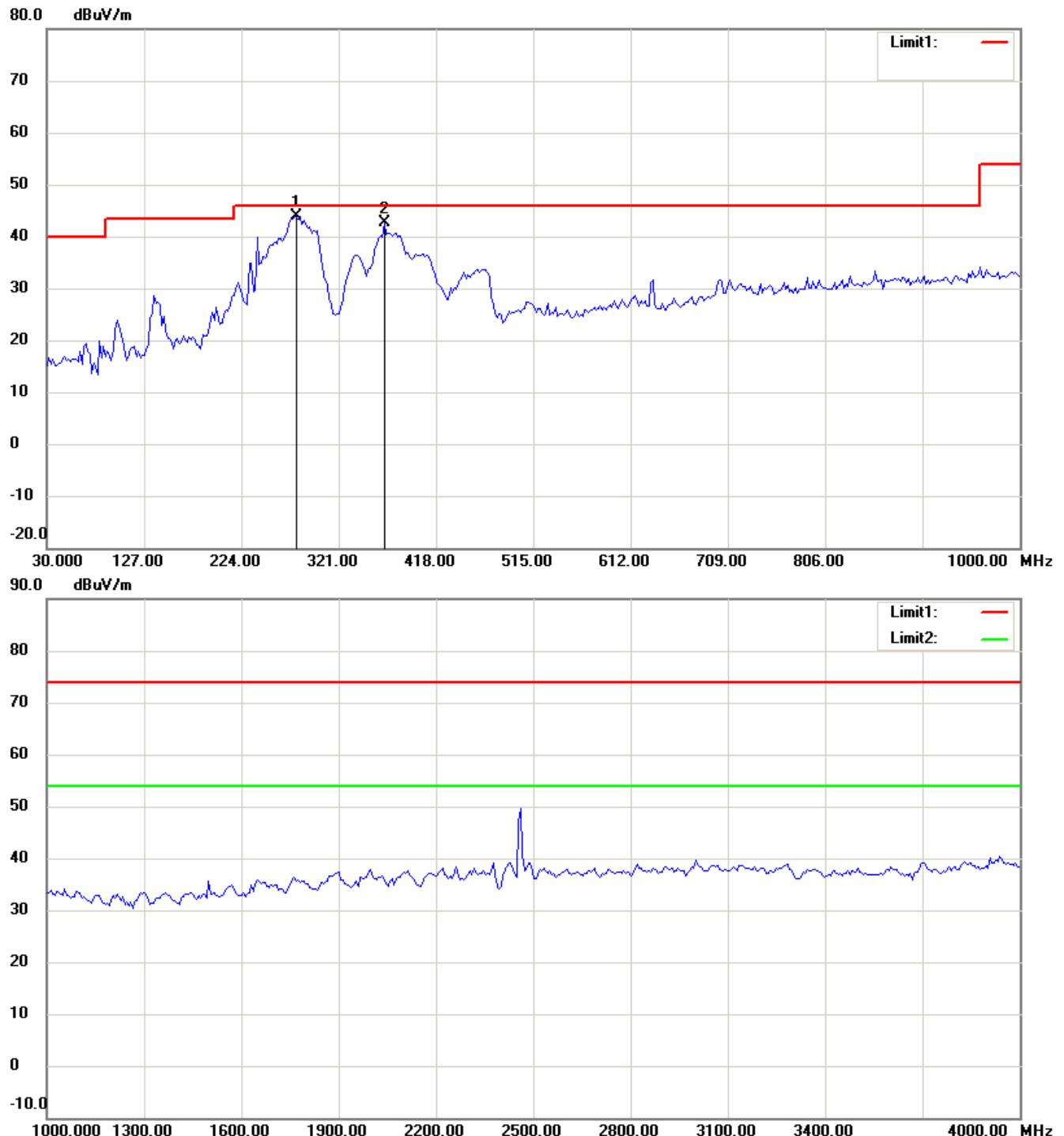
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11b CH11

Antenna Polarization H

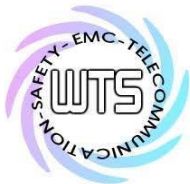


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

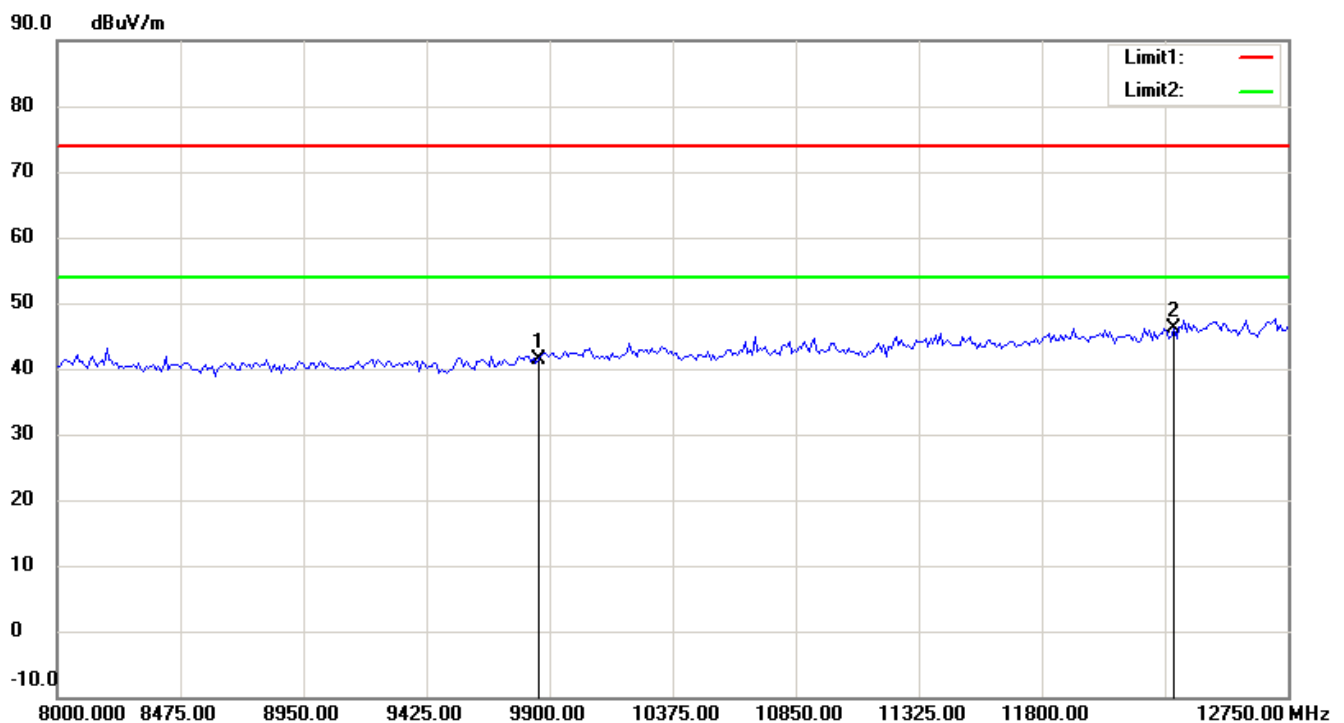
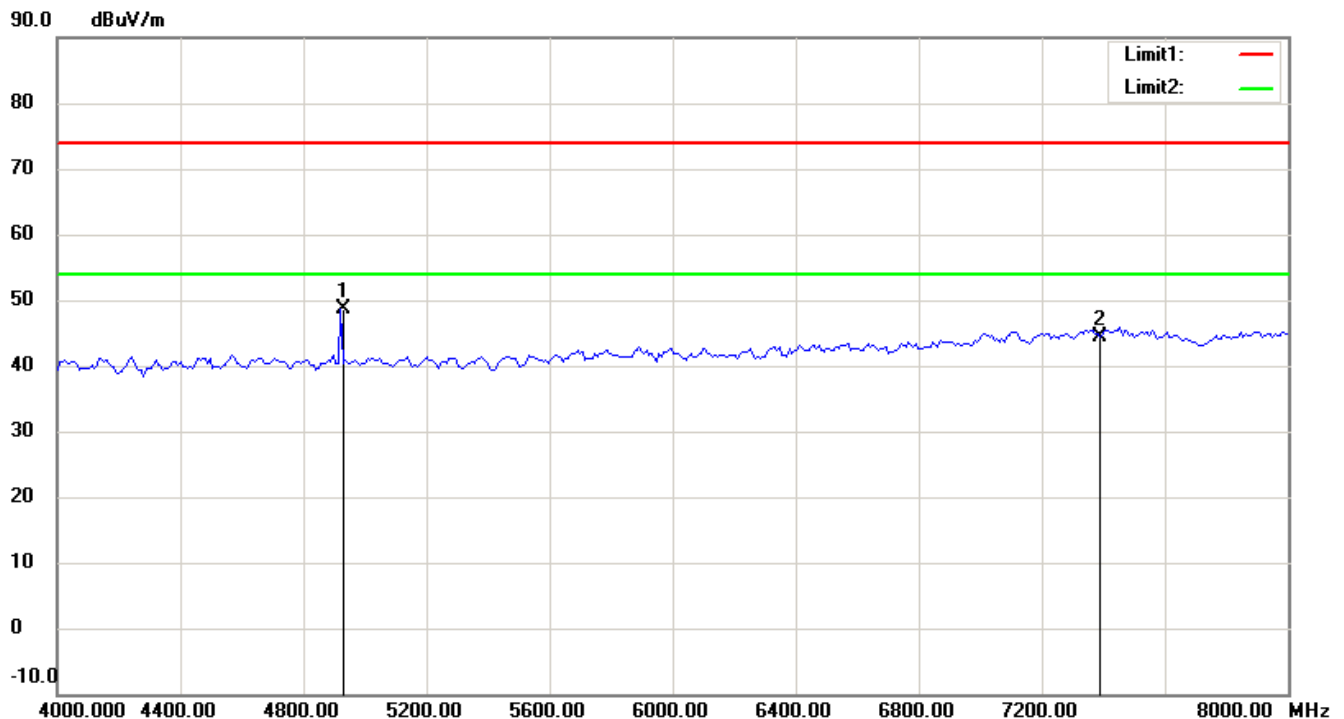
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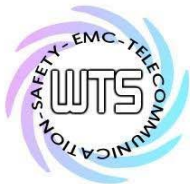
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

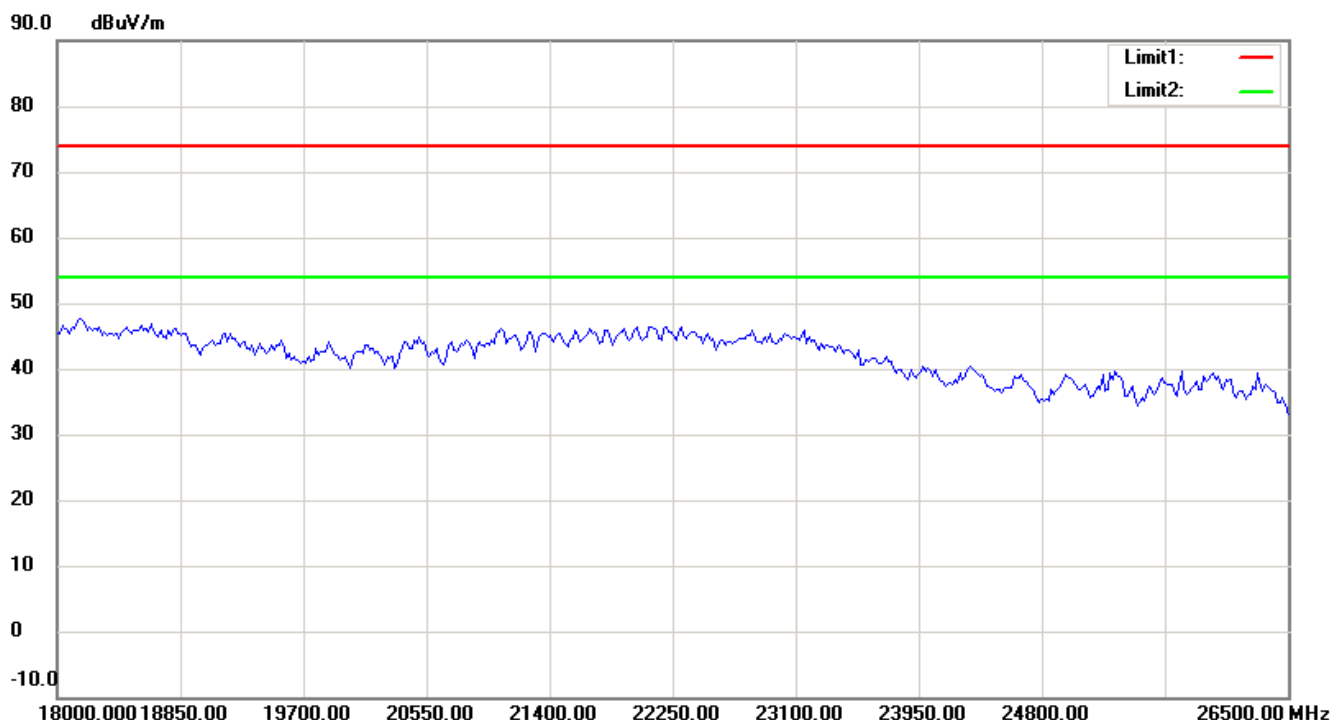
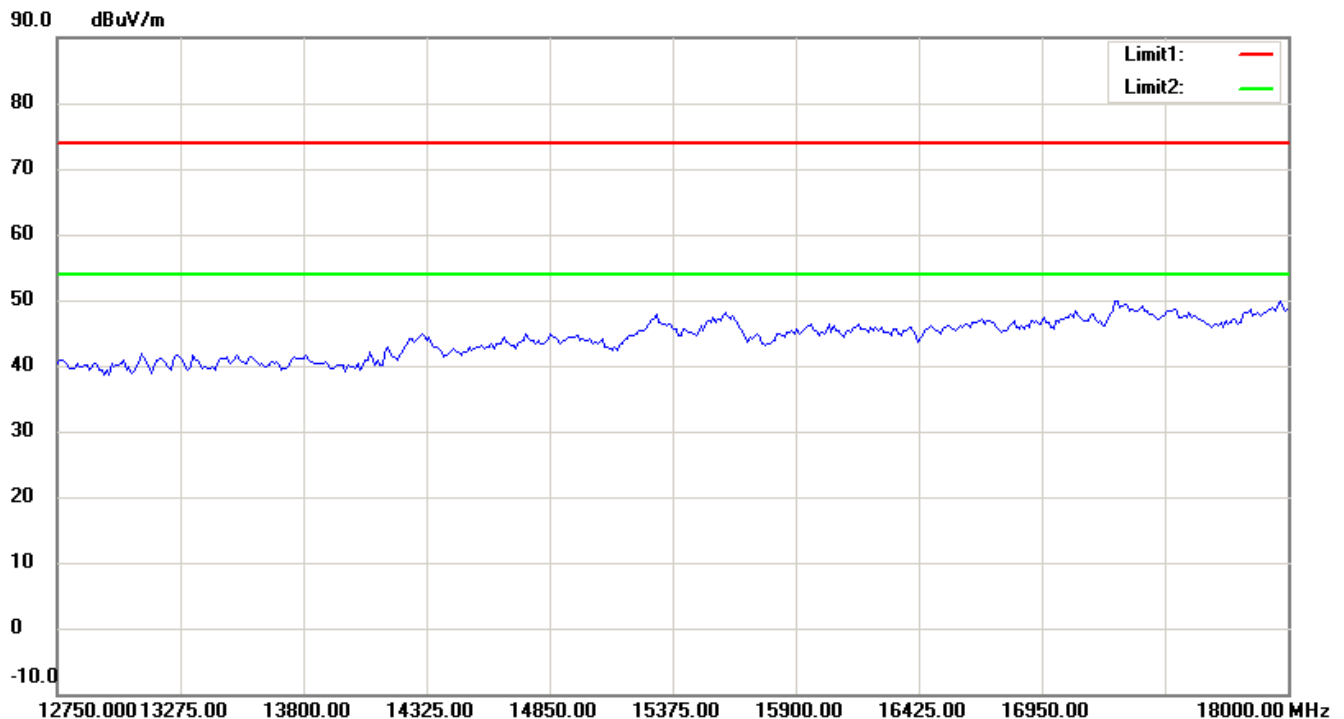
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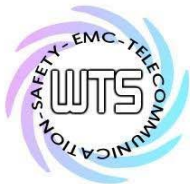
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

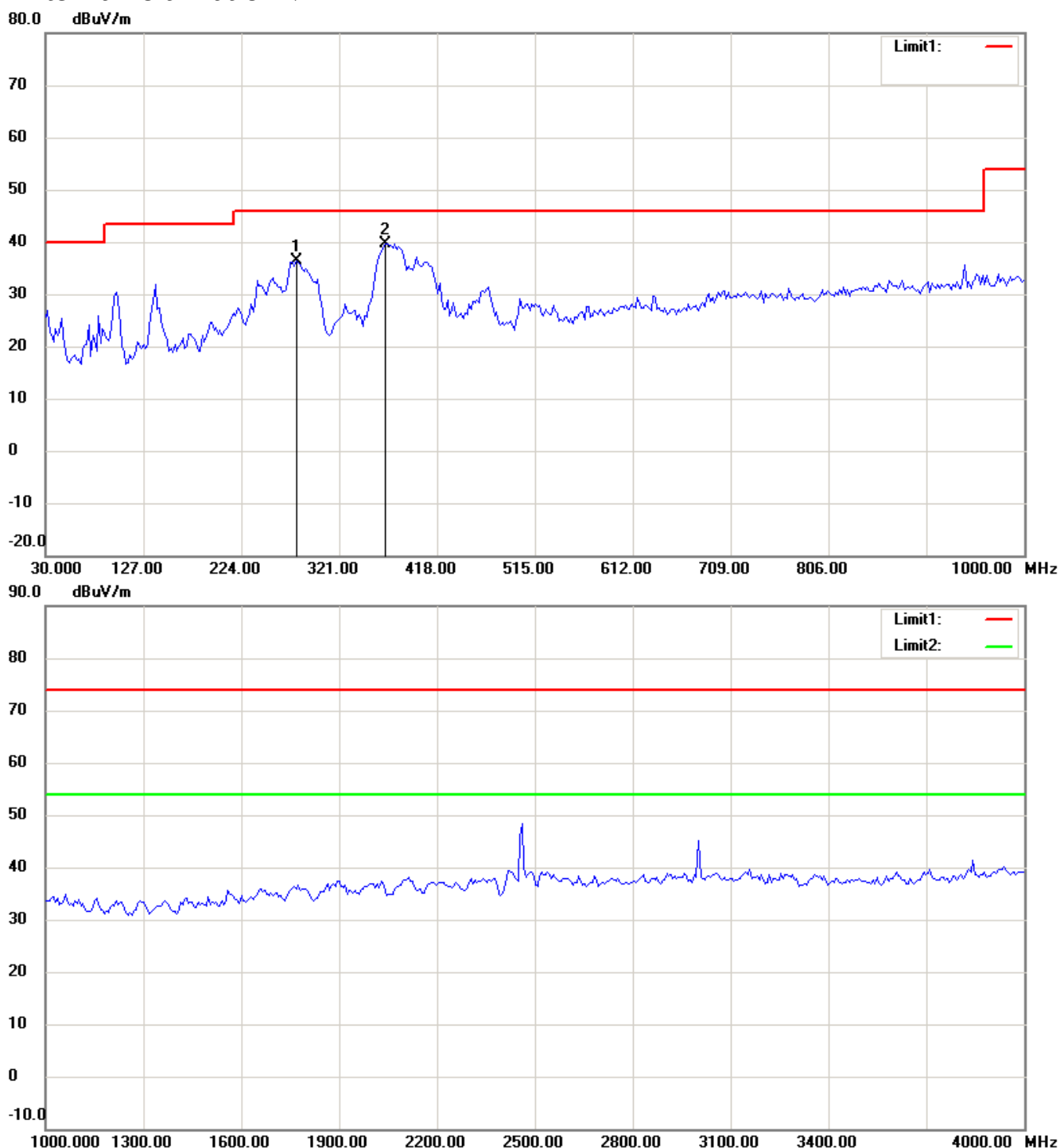
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Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

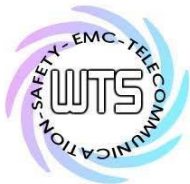


Up Line: Peak Limit Line

Down Line: Ave Limit Line

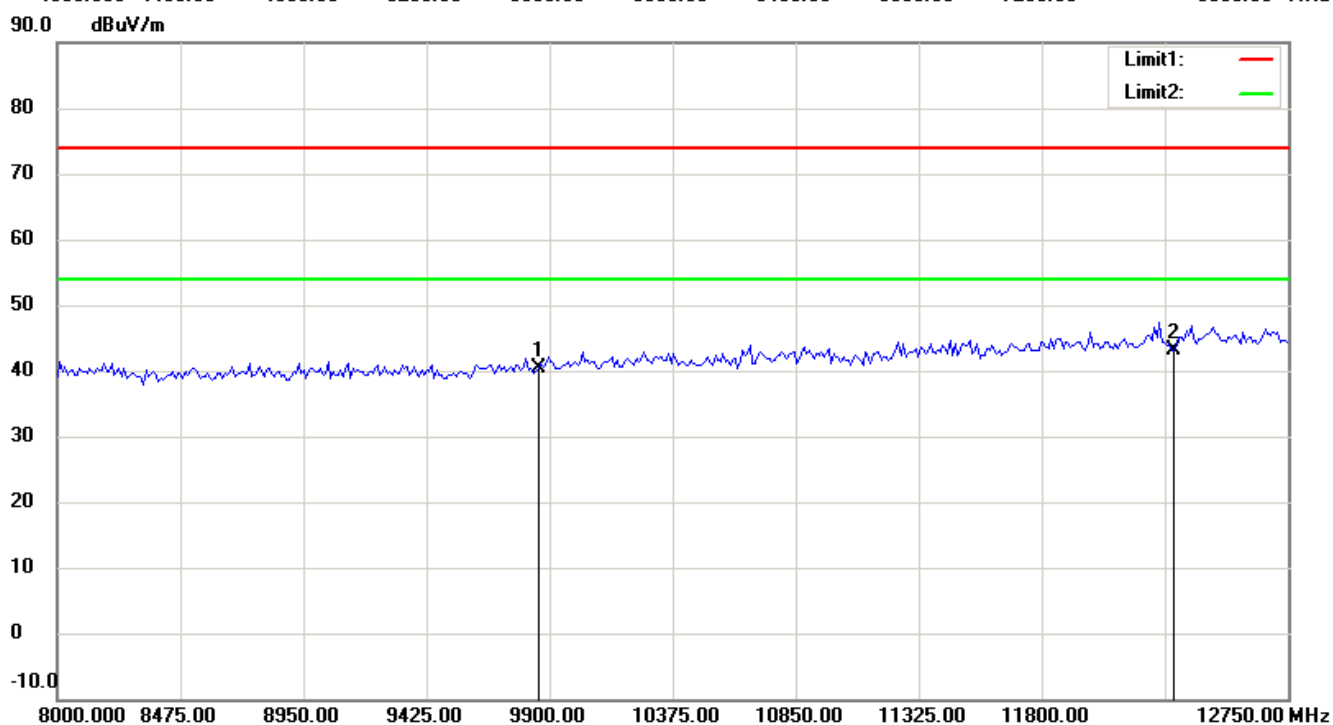
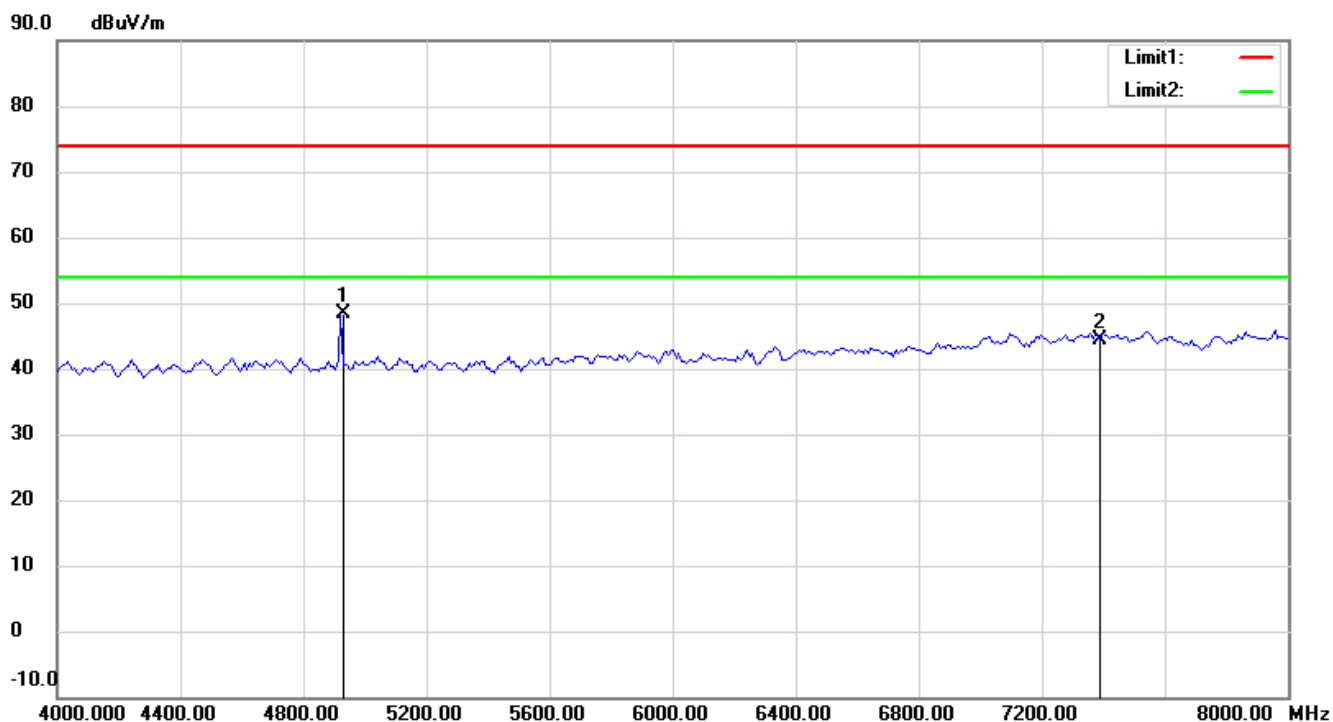
Note:

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Registration number: W6M21209-12734-C-1

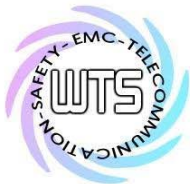
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

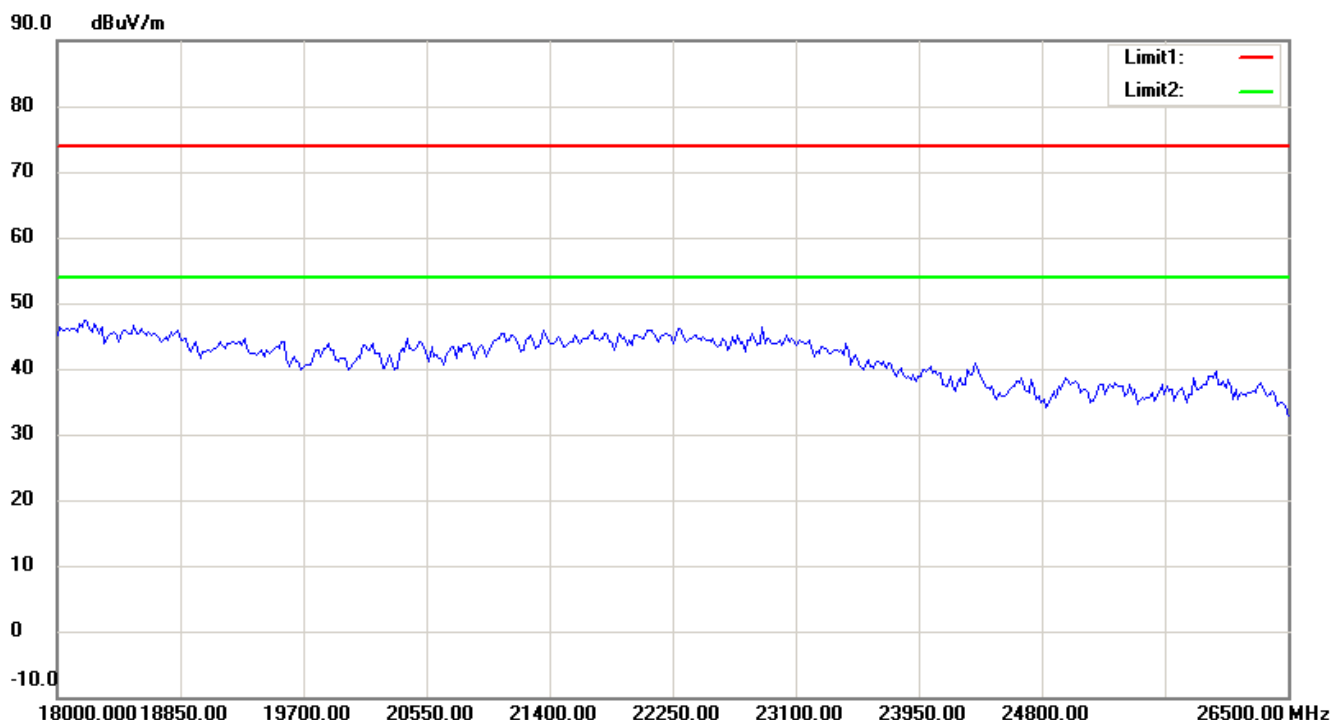
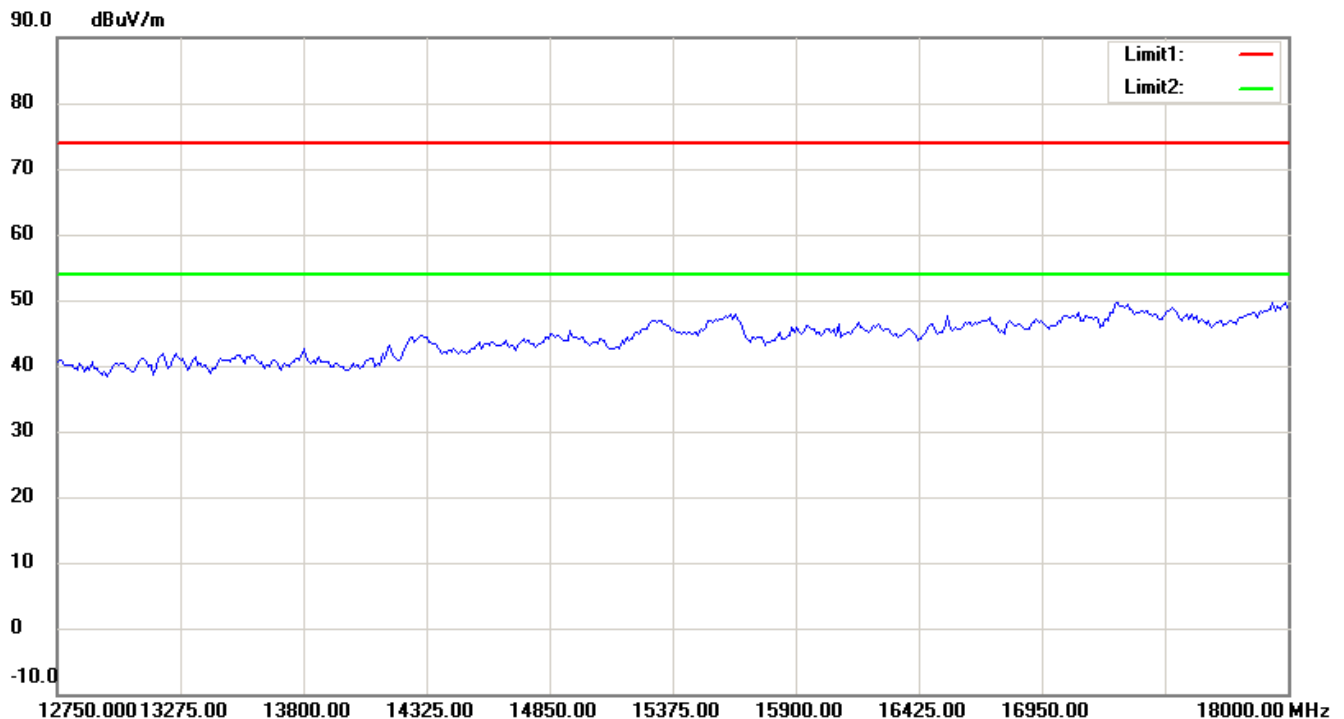
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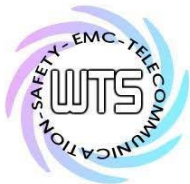
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

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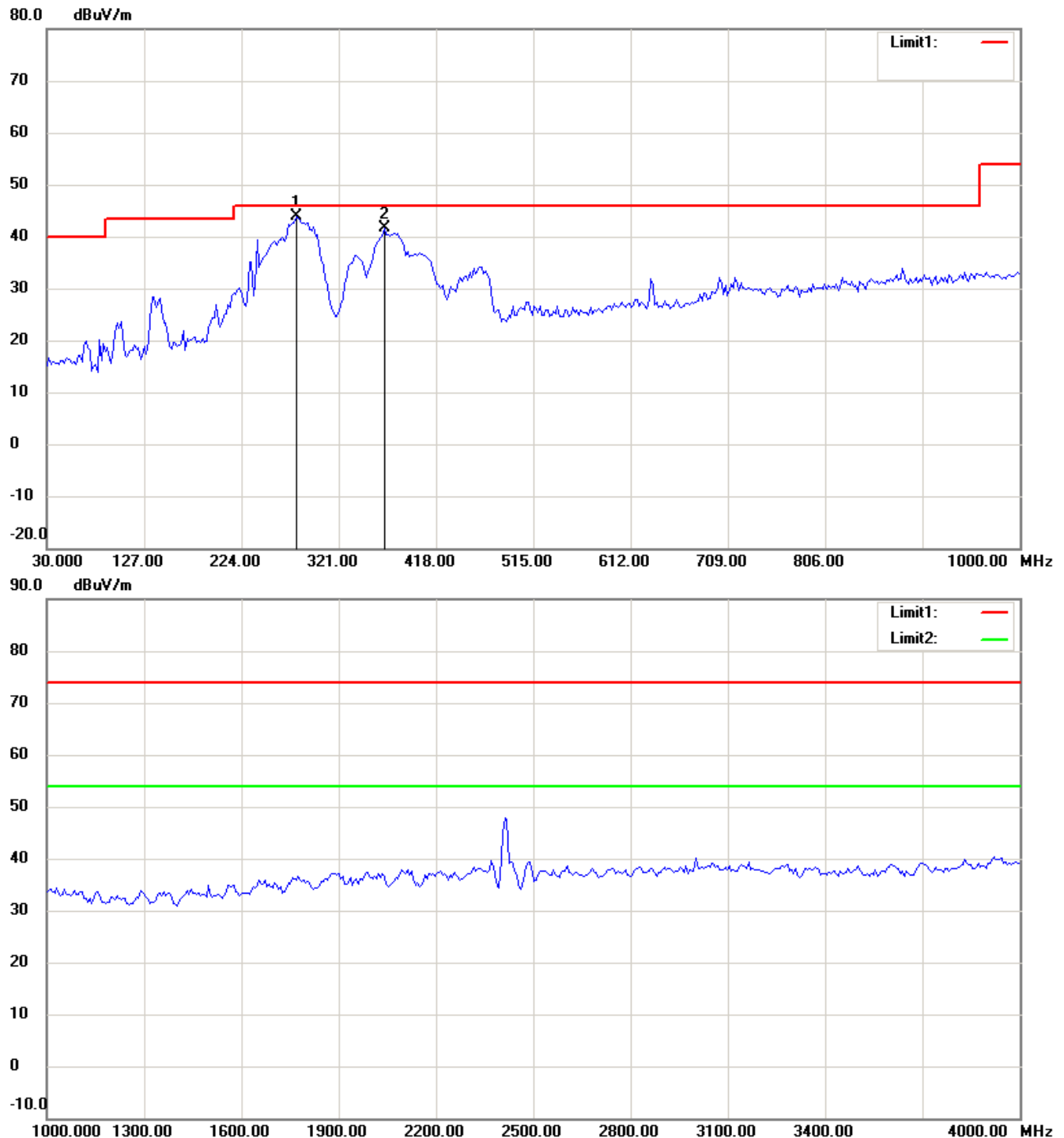
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11g CH1

Antenna Polarization H

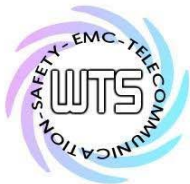


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

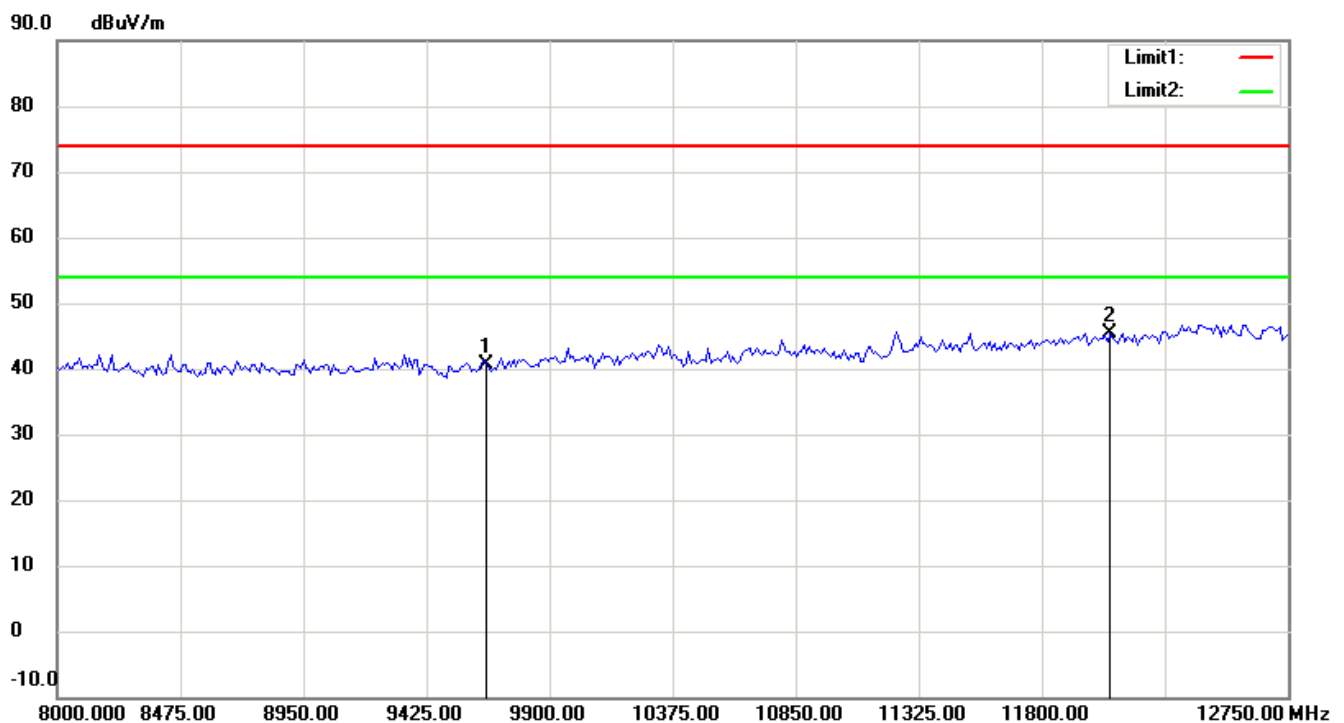
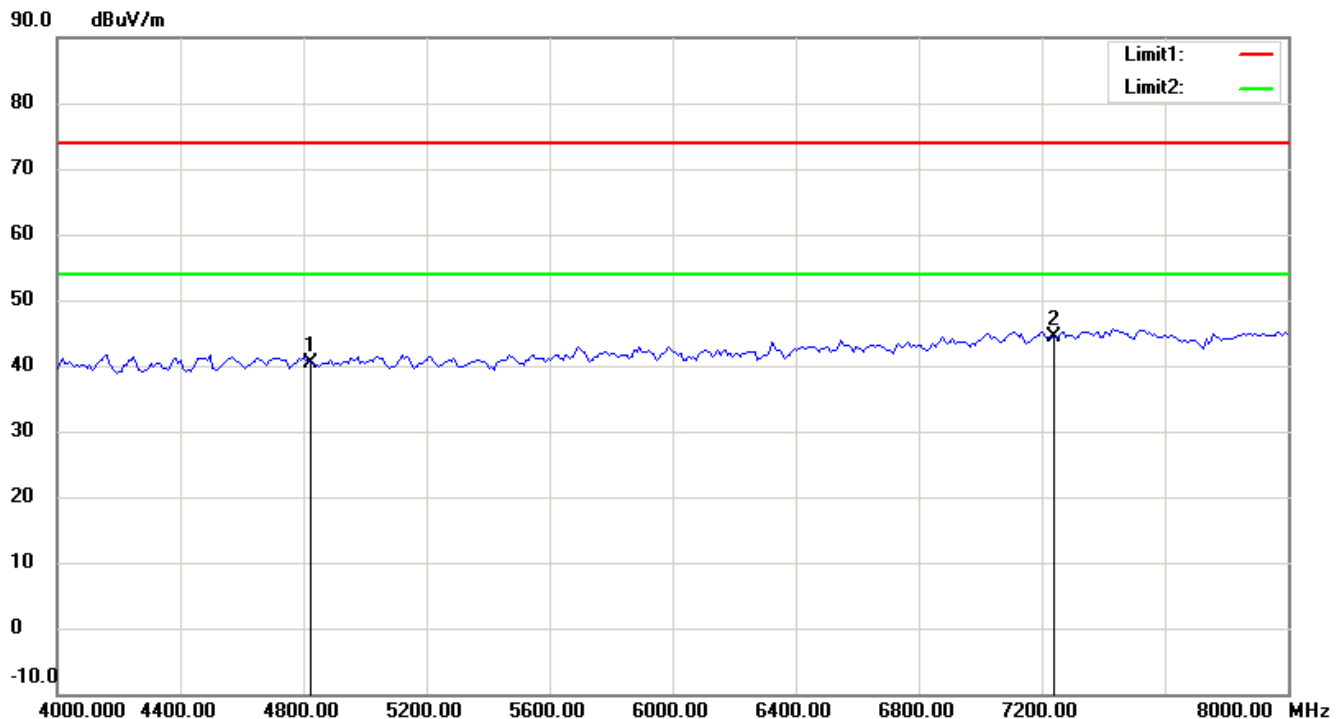
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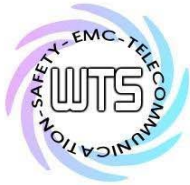
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

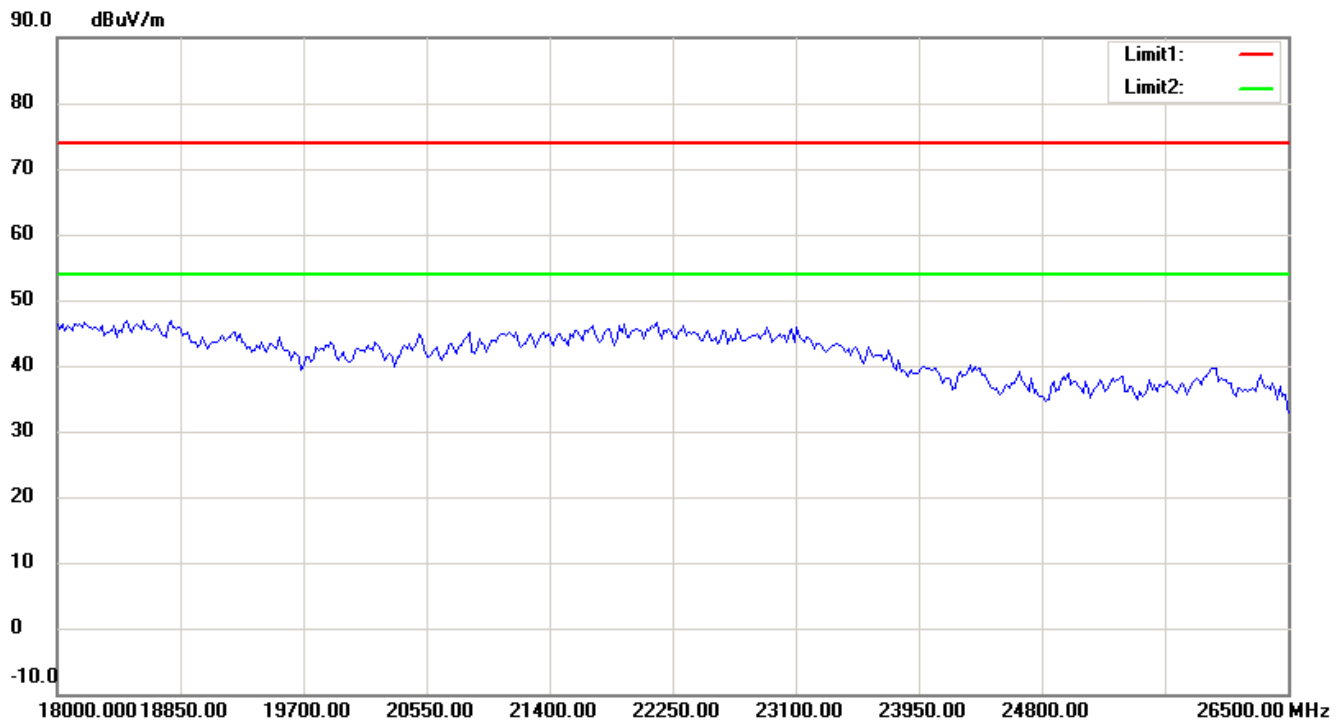
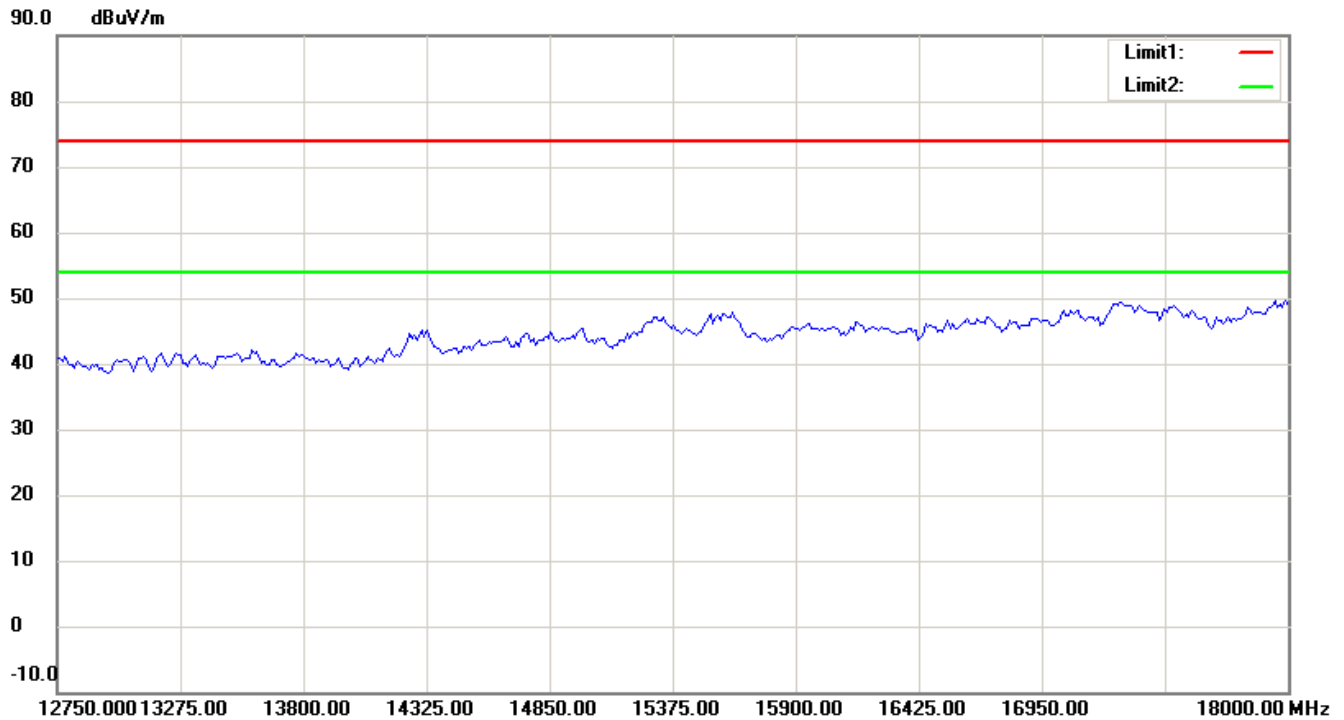
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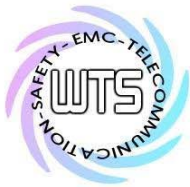
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

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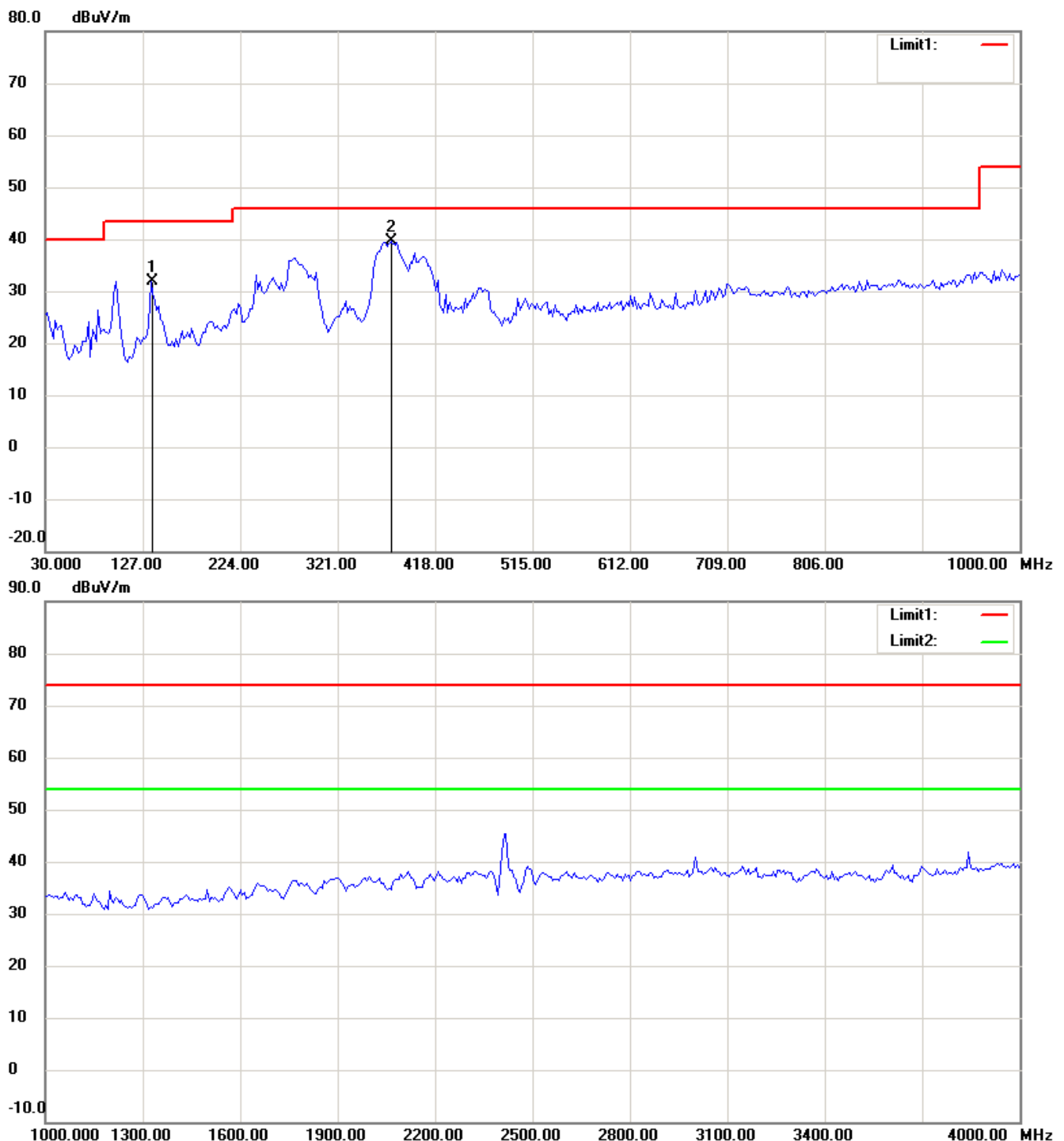


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

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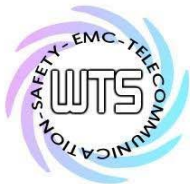
Antenna Polarization V



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

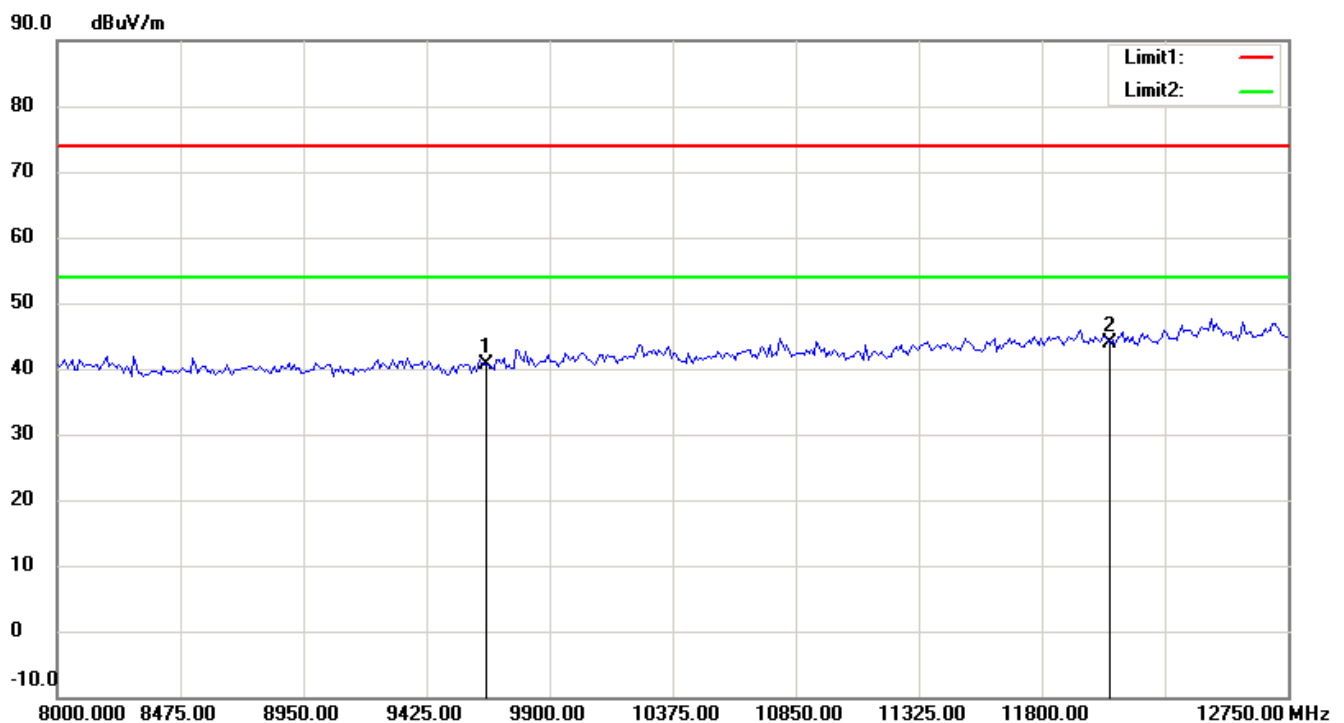
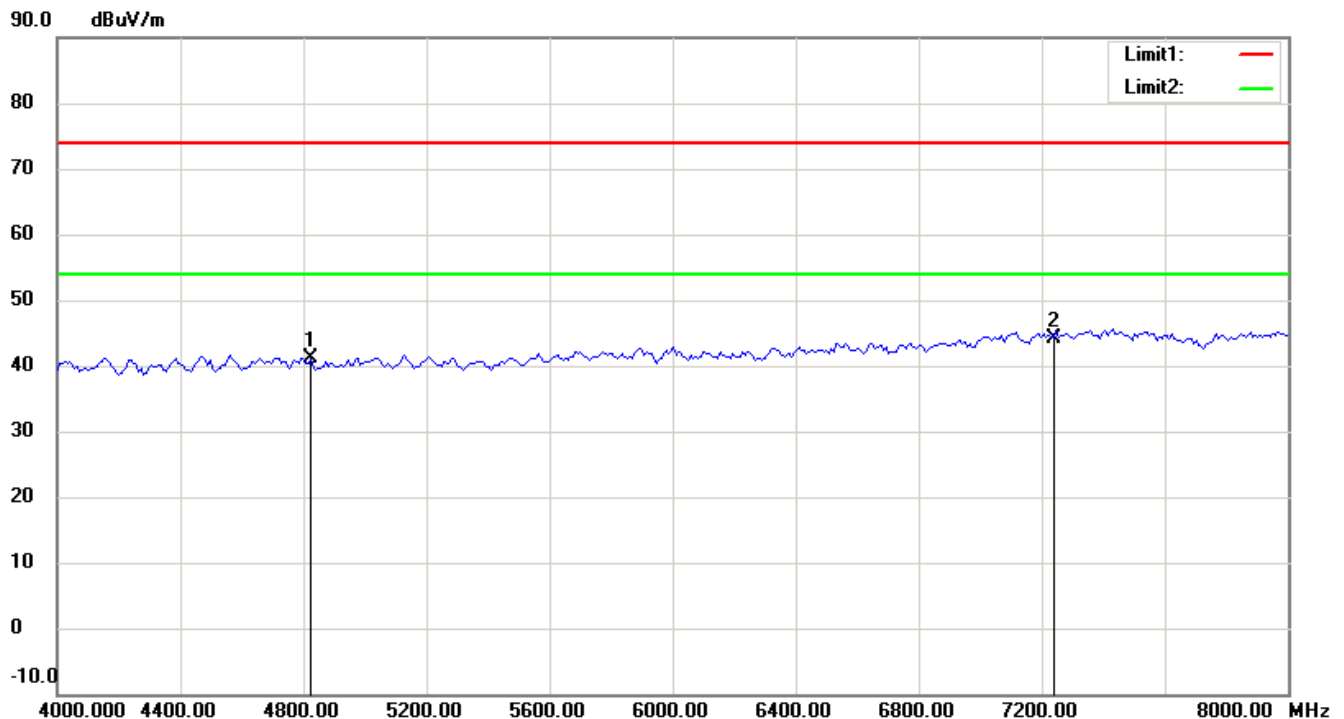
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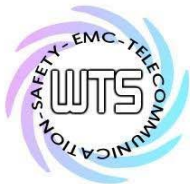
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

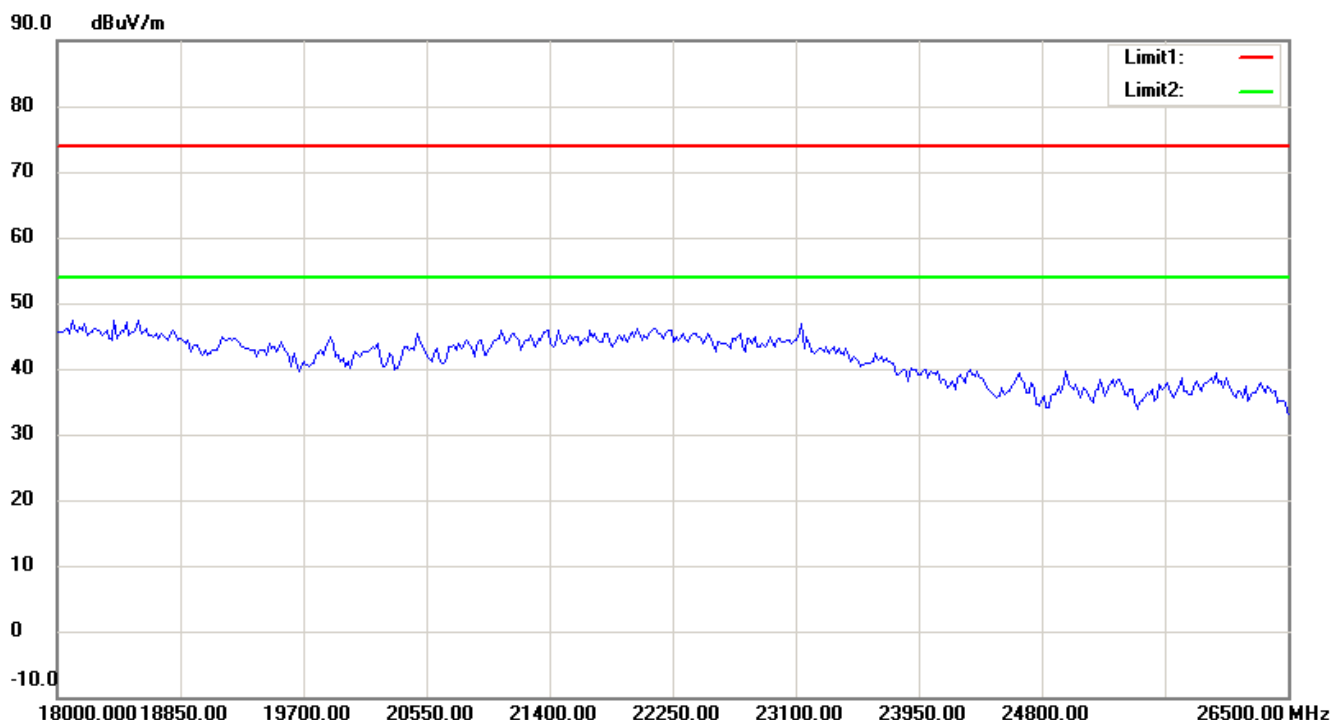
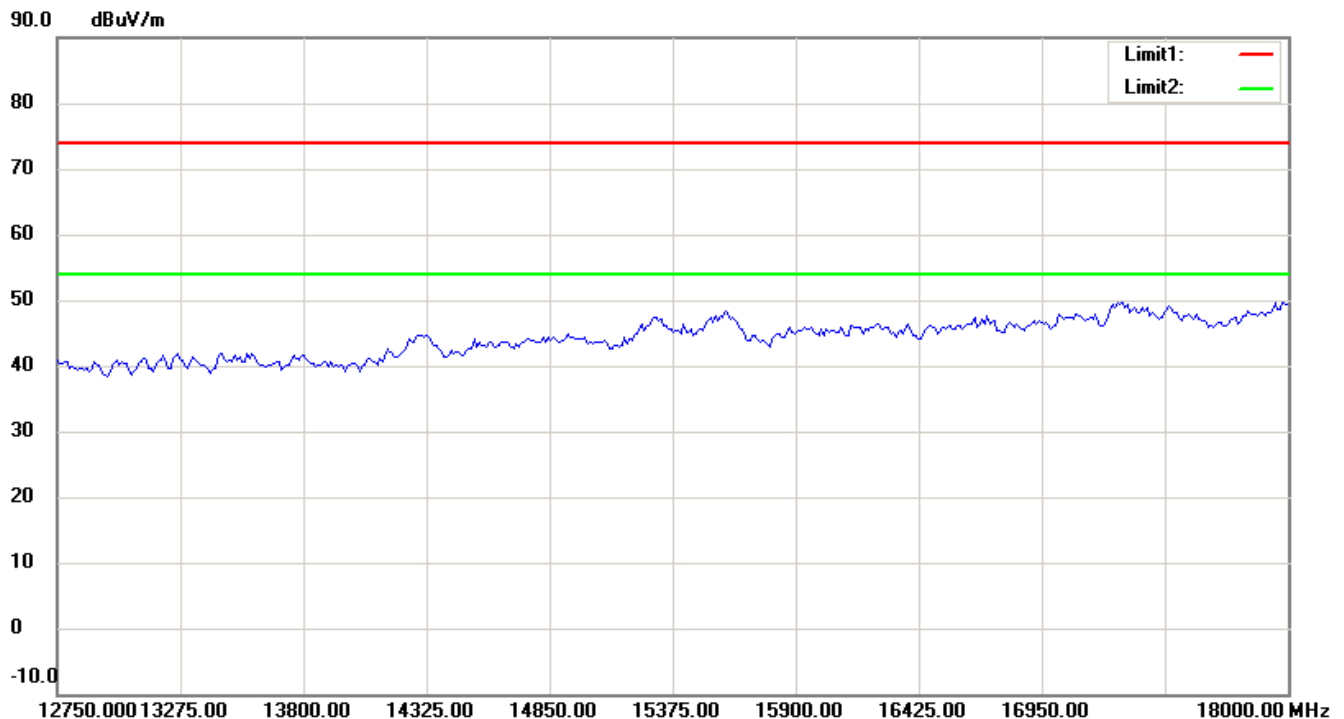
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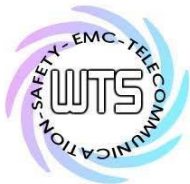


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

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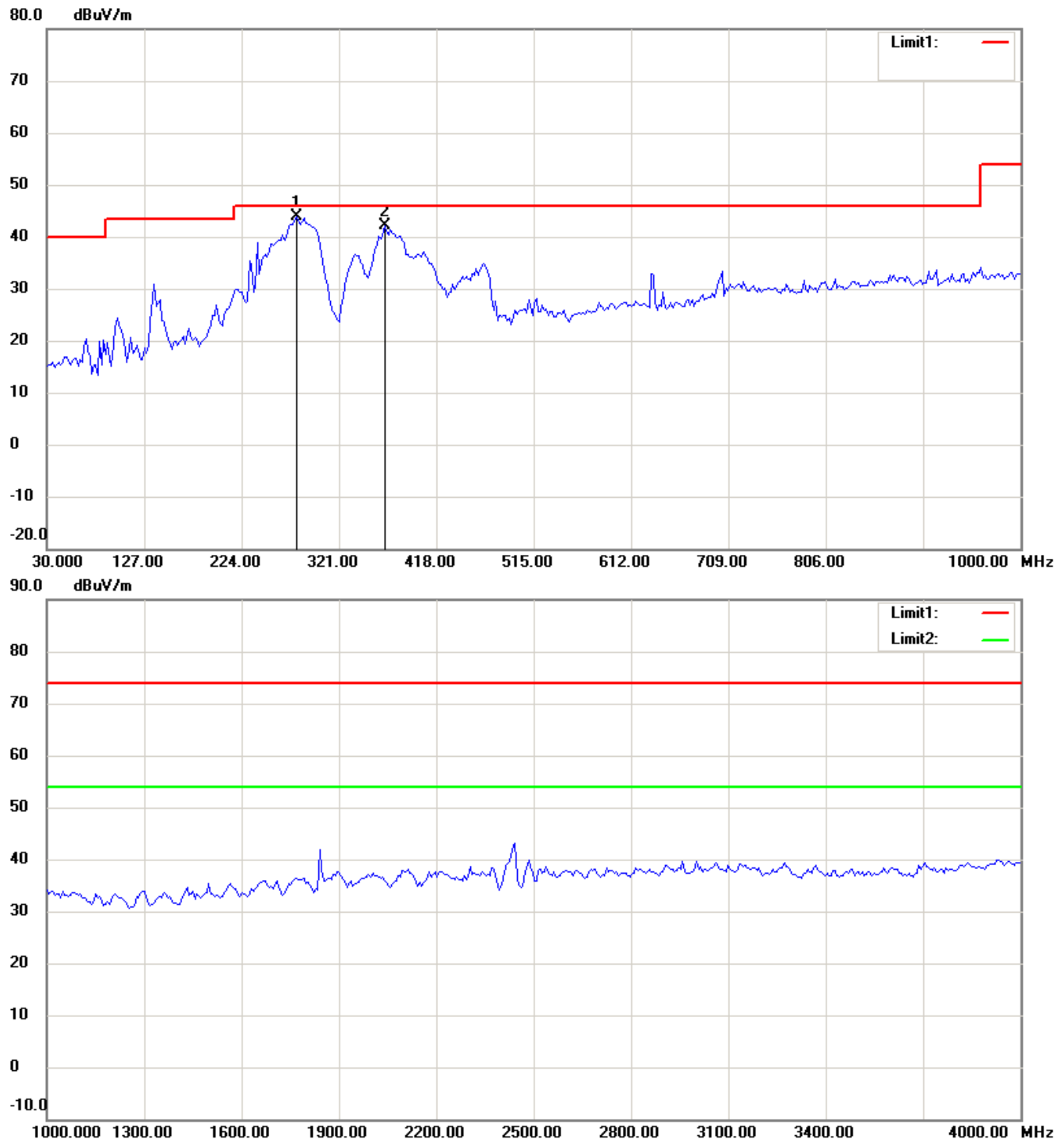
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11g CH6

Antenna Polarization H

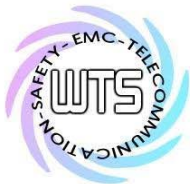


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

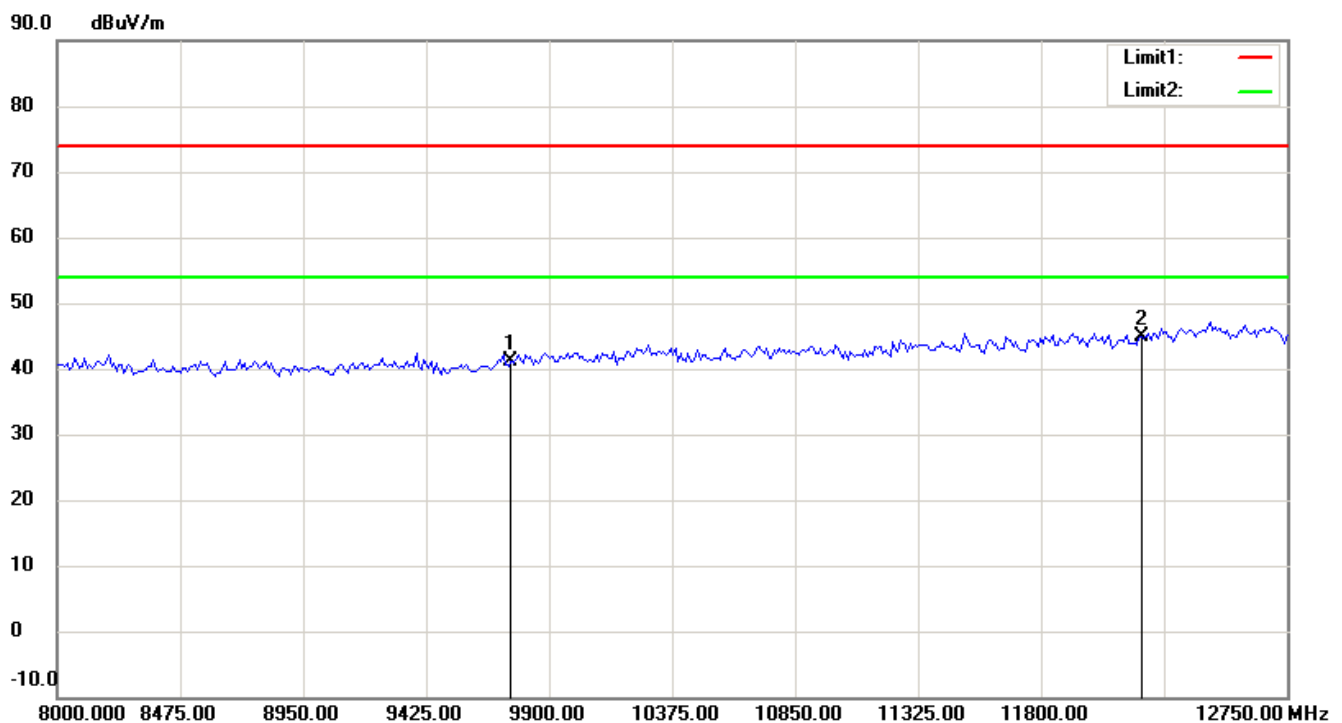
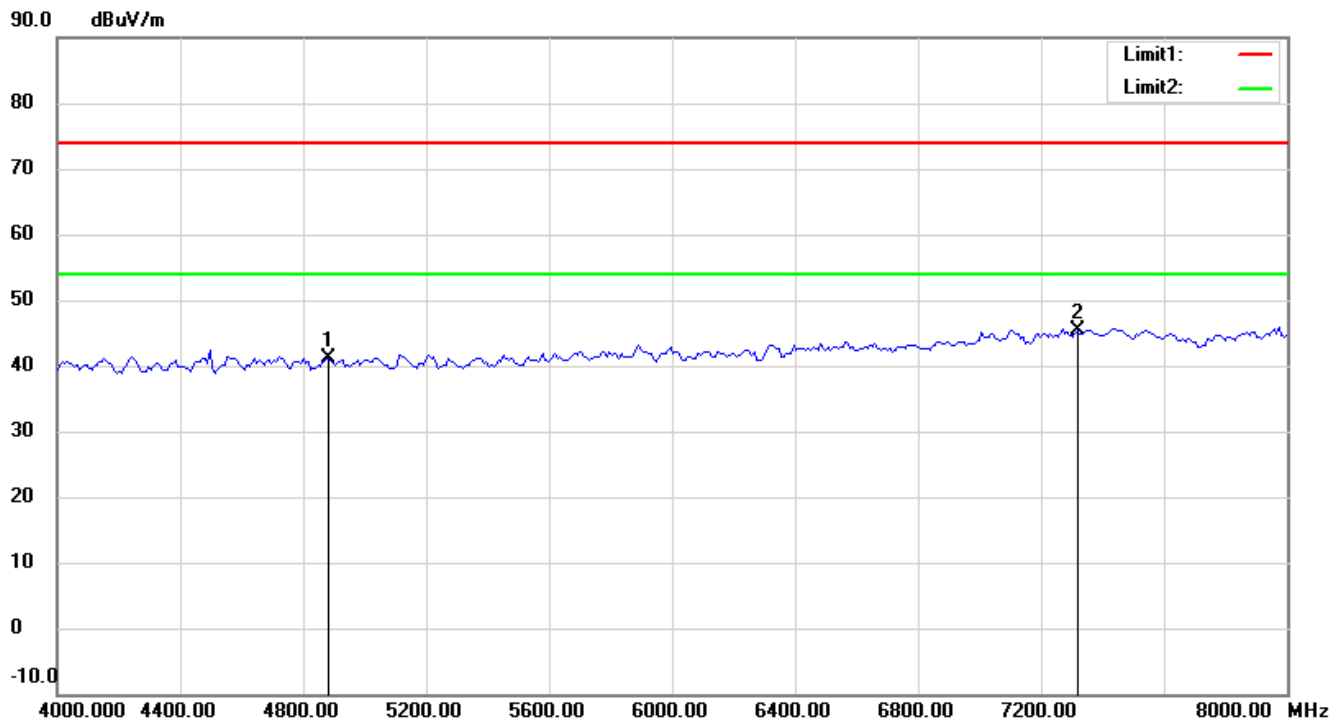
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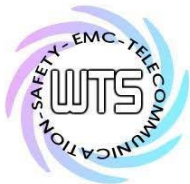
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

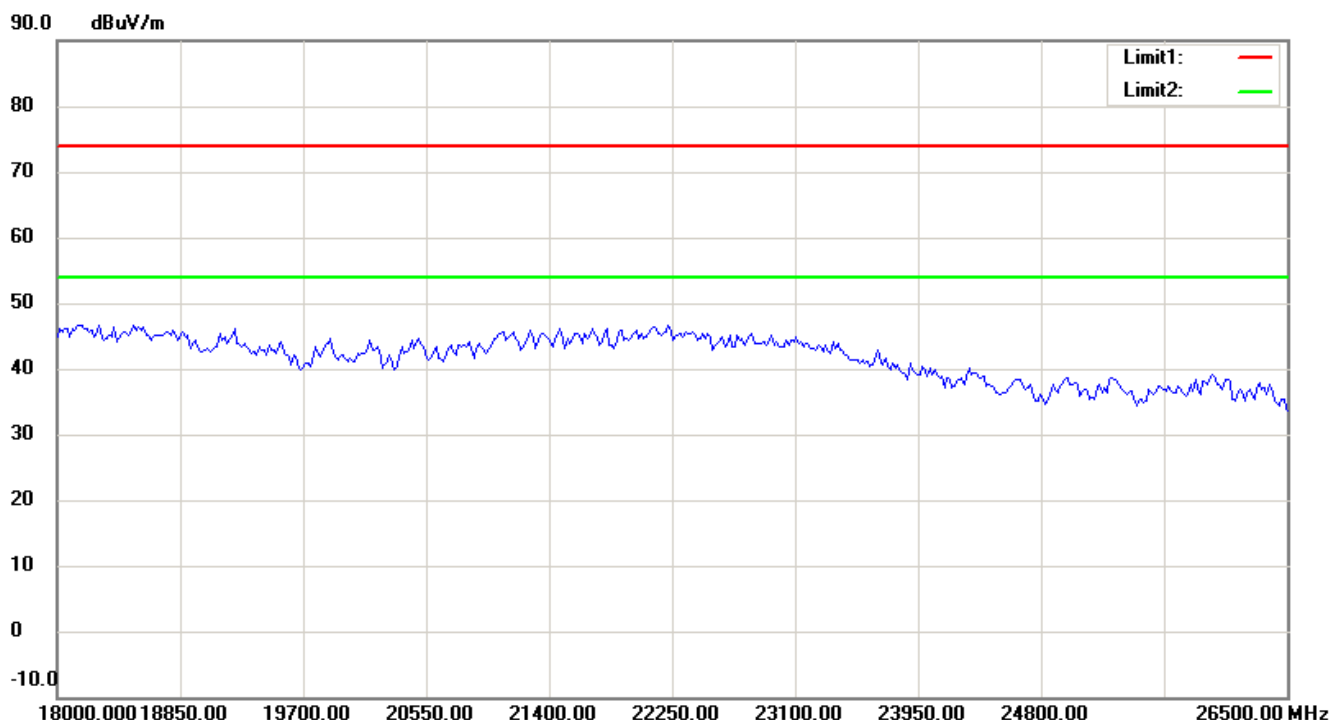
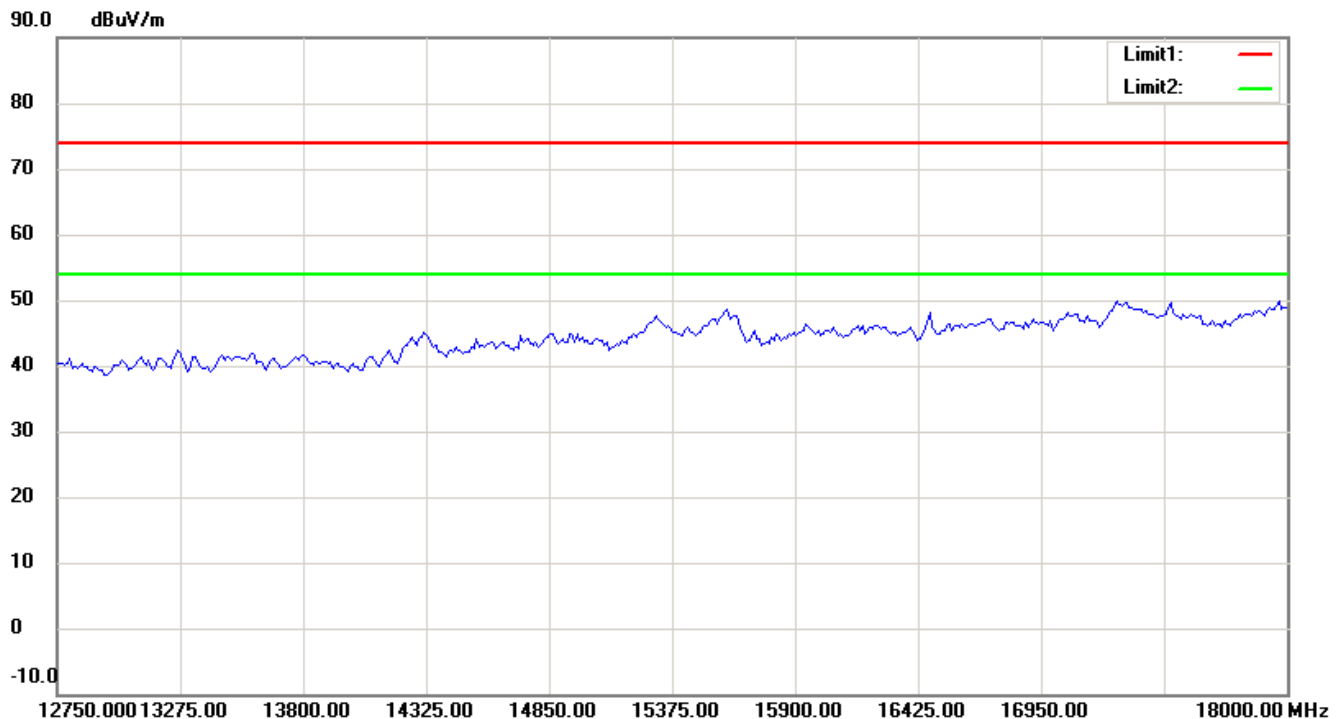
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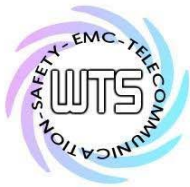
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

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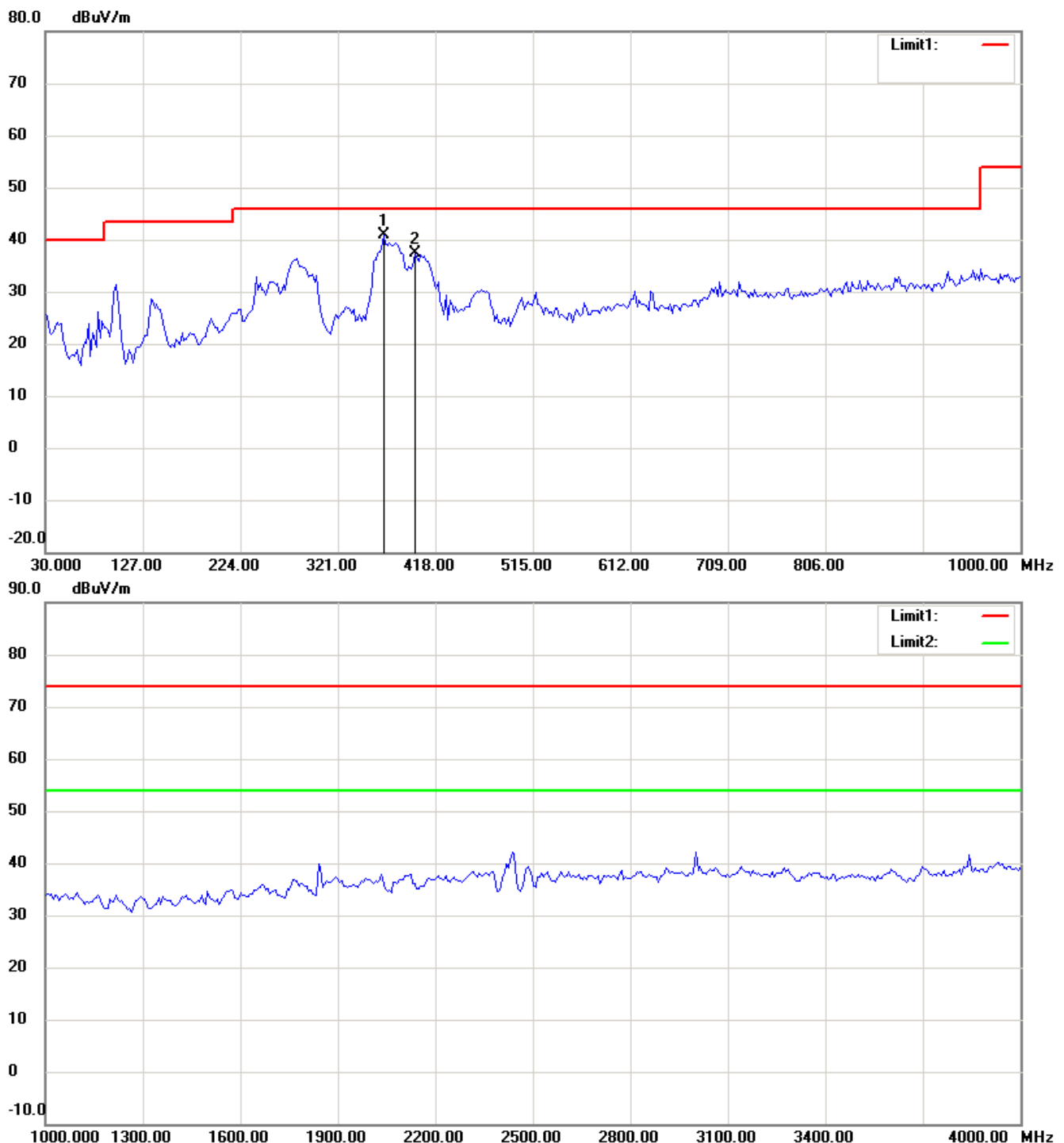


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Registration number: W6M21209-12734-C-1

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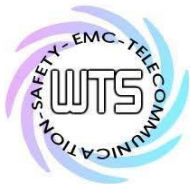
Antenna Polarization V



Up Line: Peak Limit Line
Down Line: Ave Limit Line

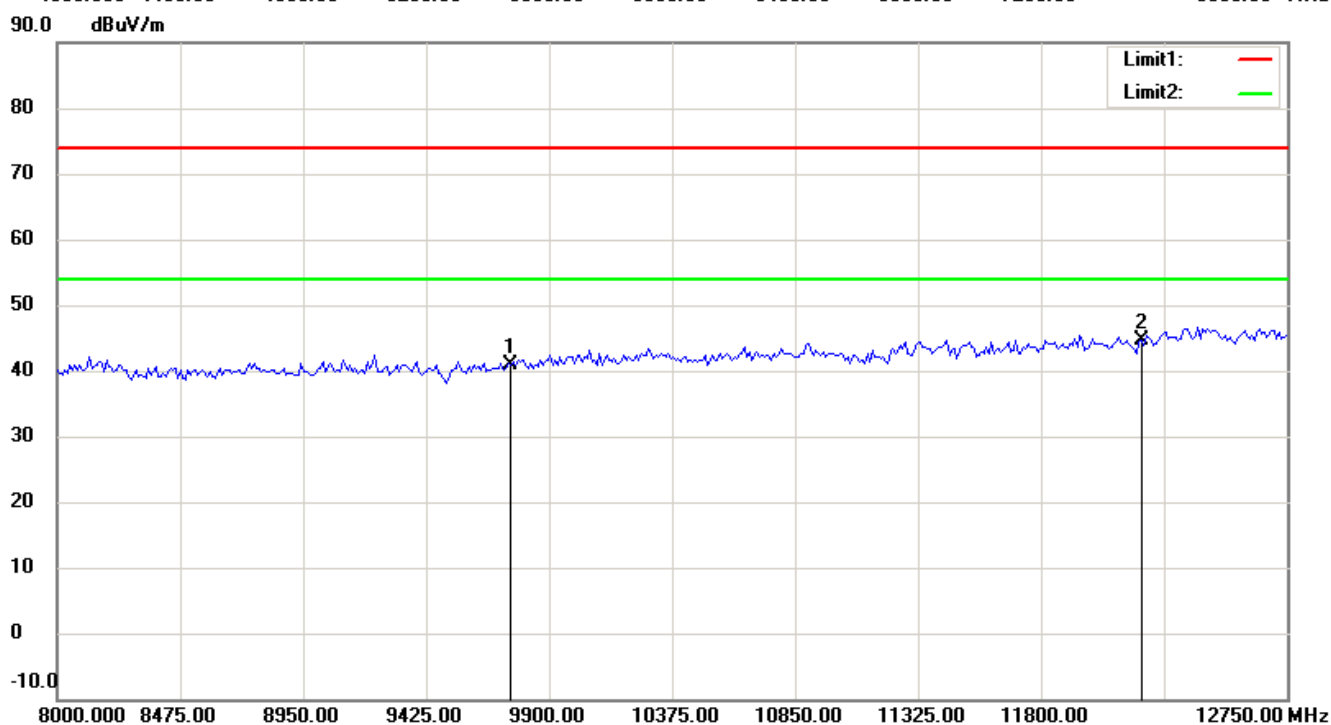
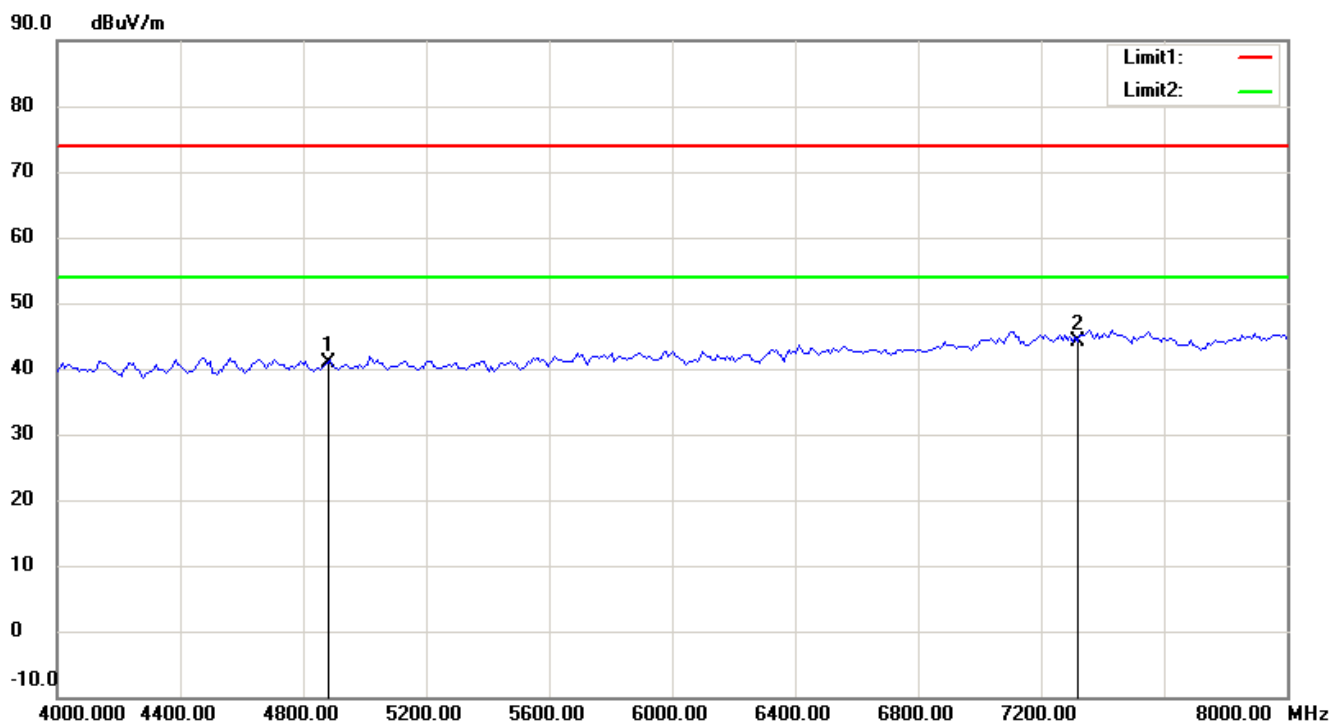
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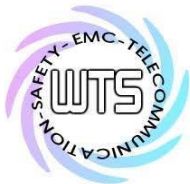
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

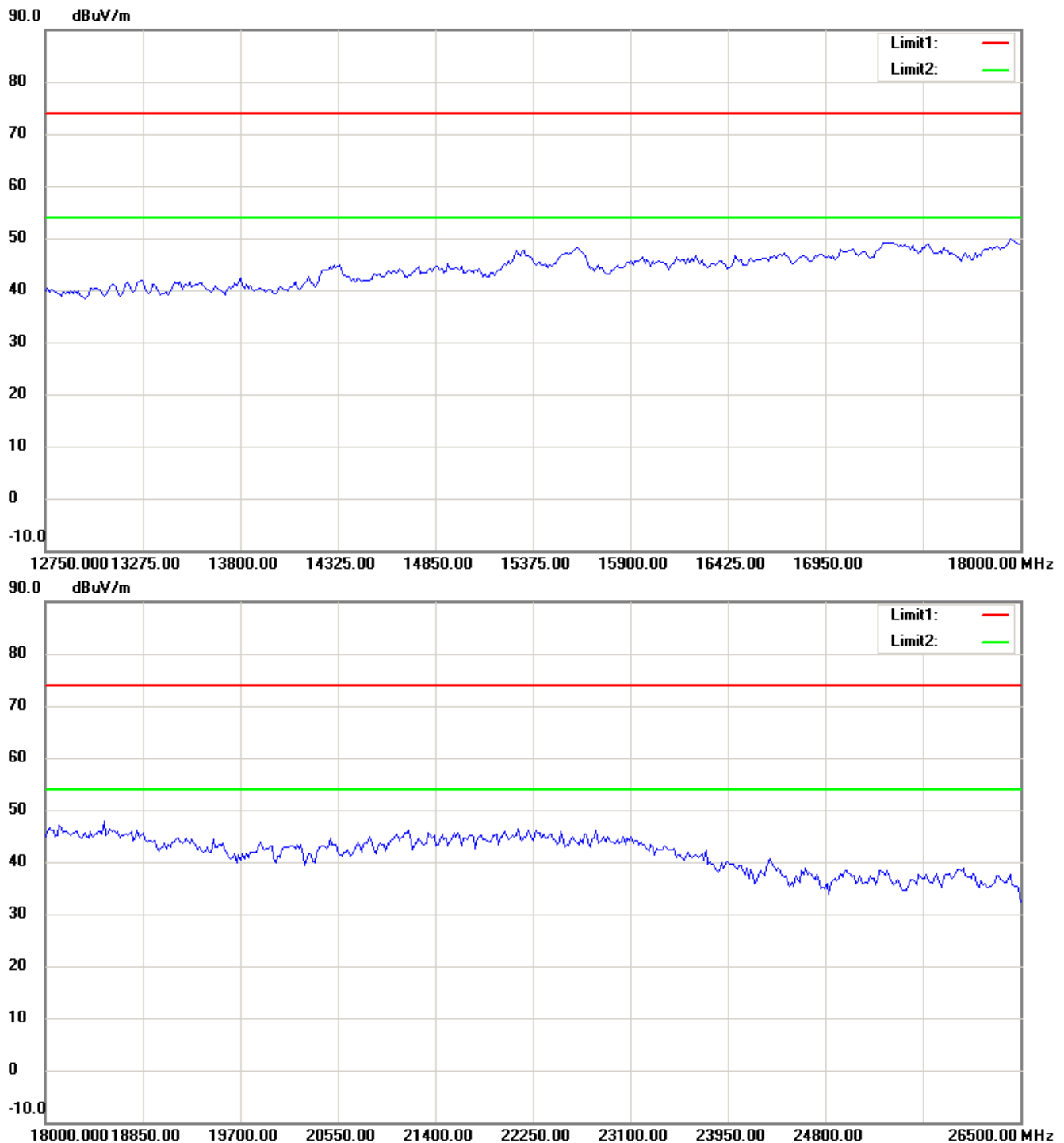
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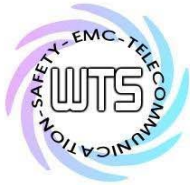
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

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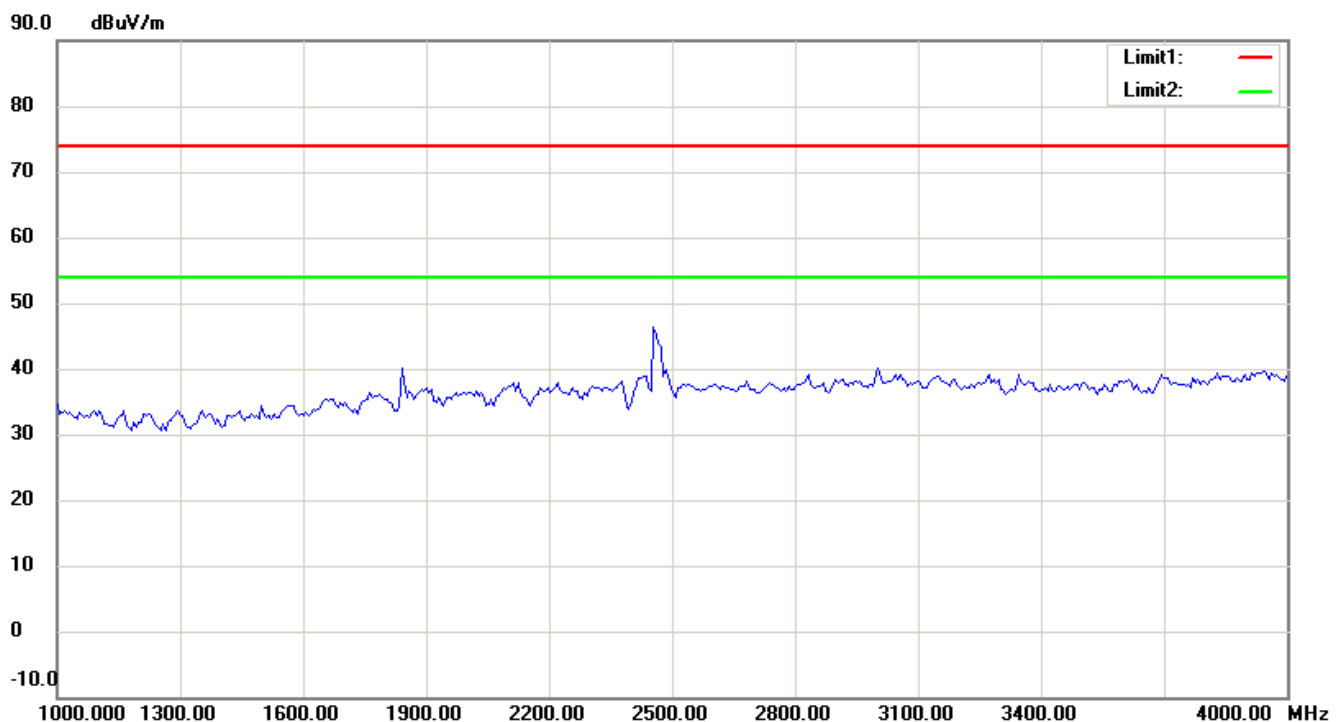
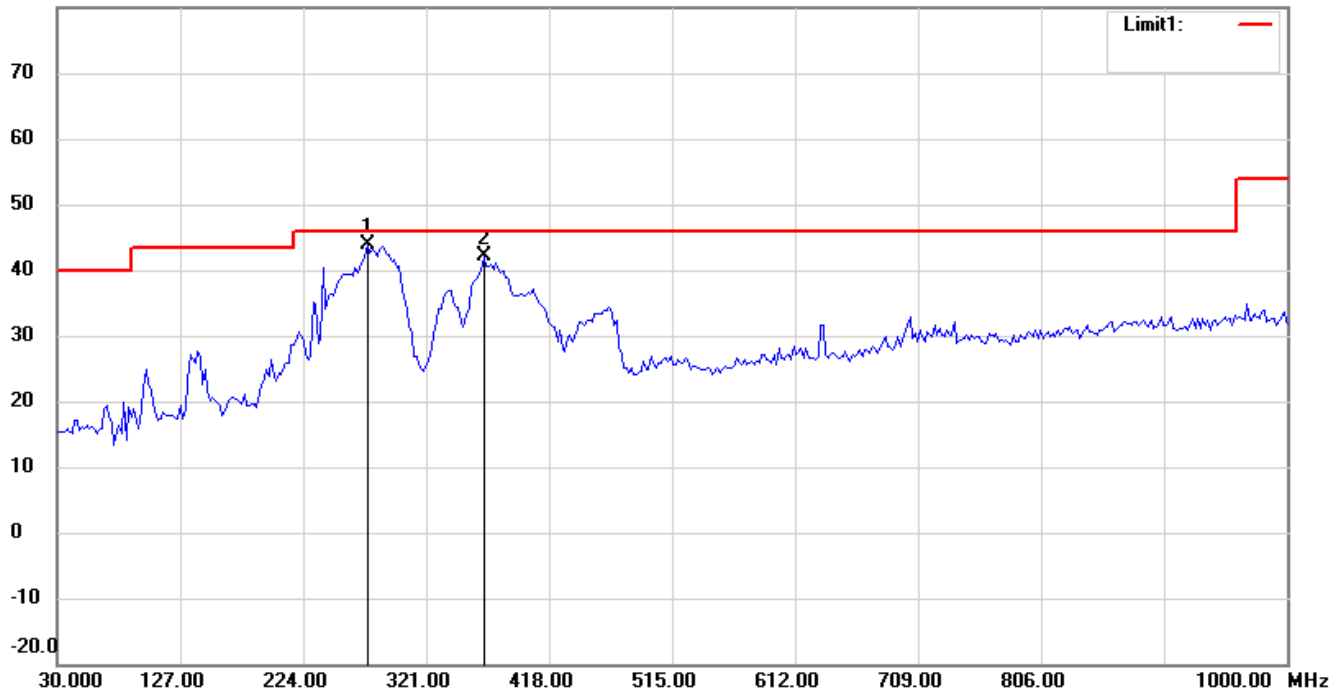
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11g CH11

Antenna Polarization H

80.0 dBuV/m

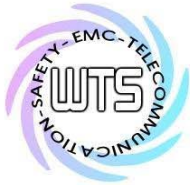


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

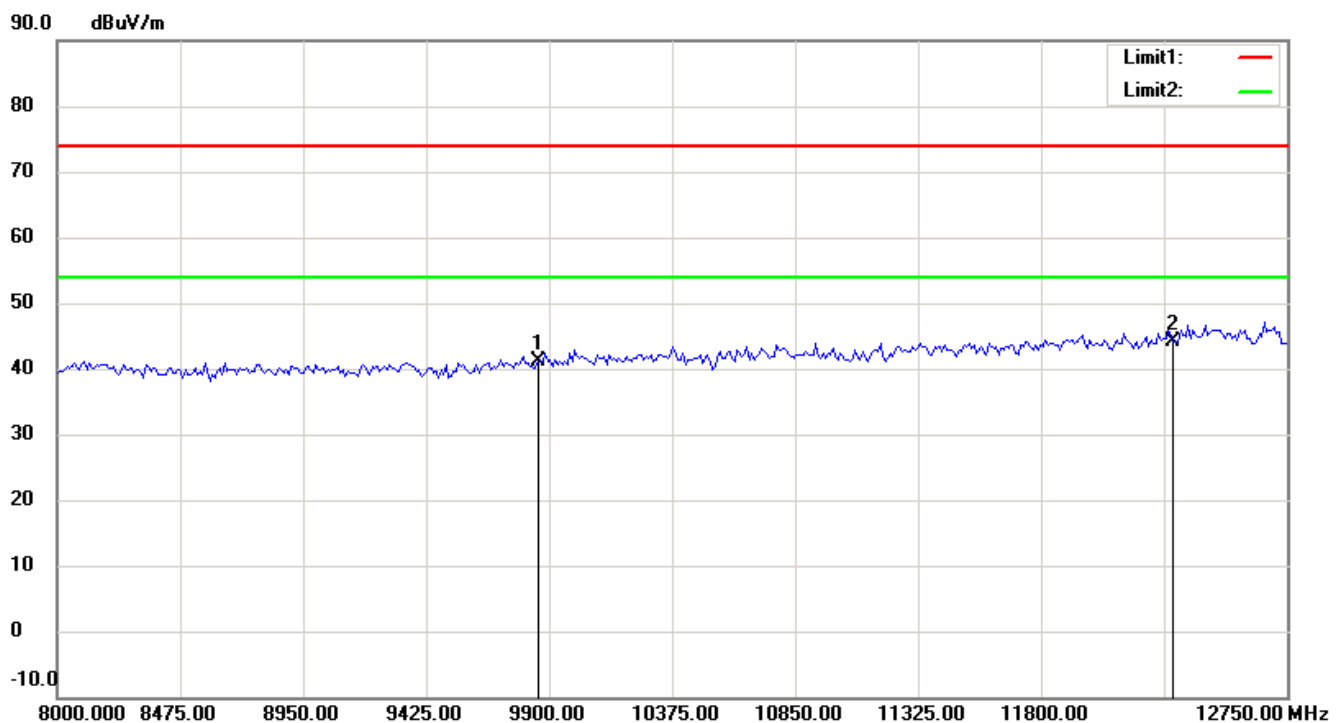
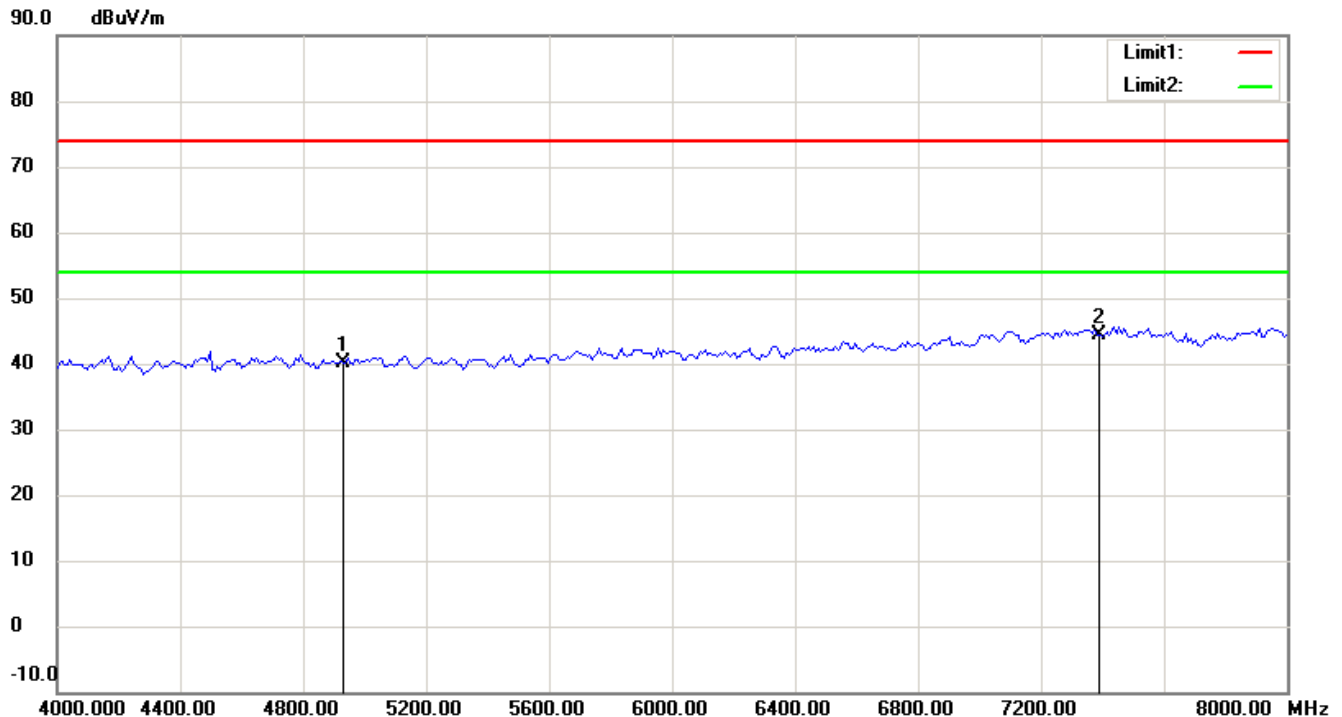
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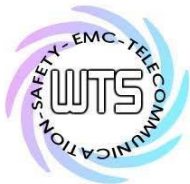
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

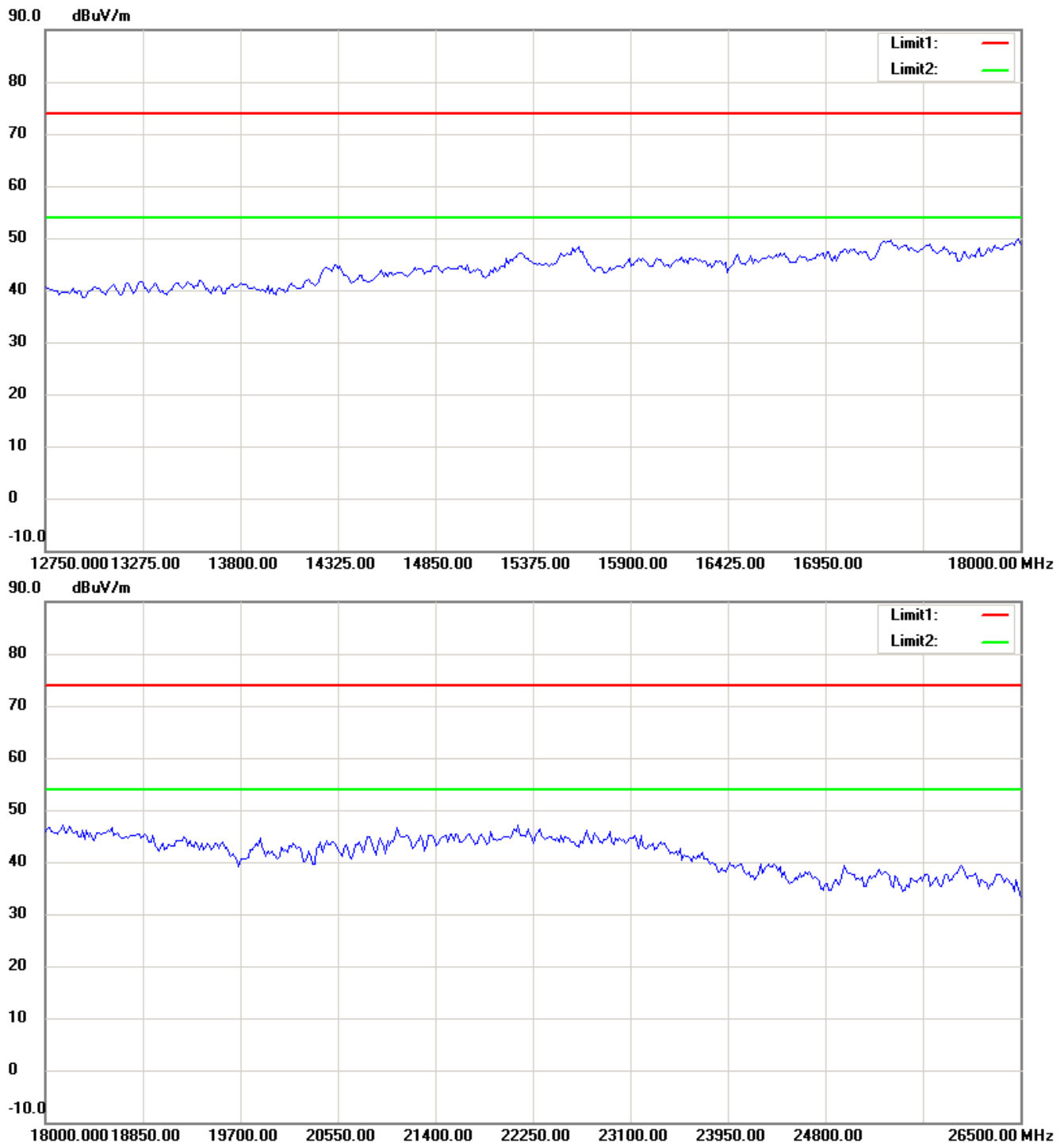
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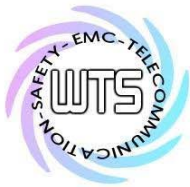
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

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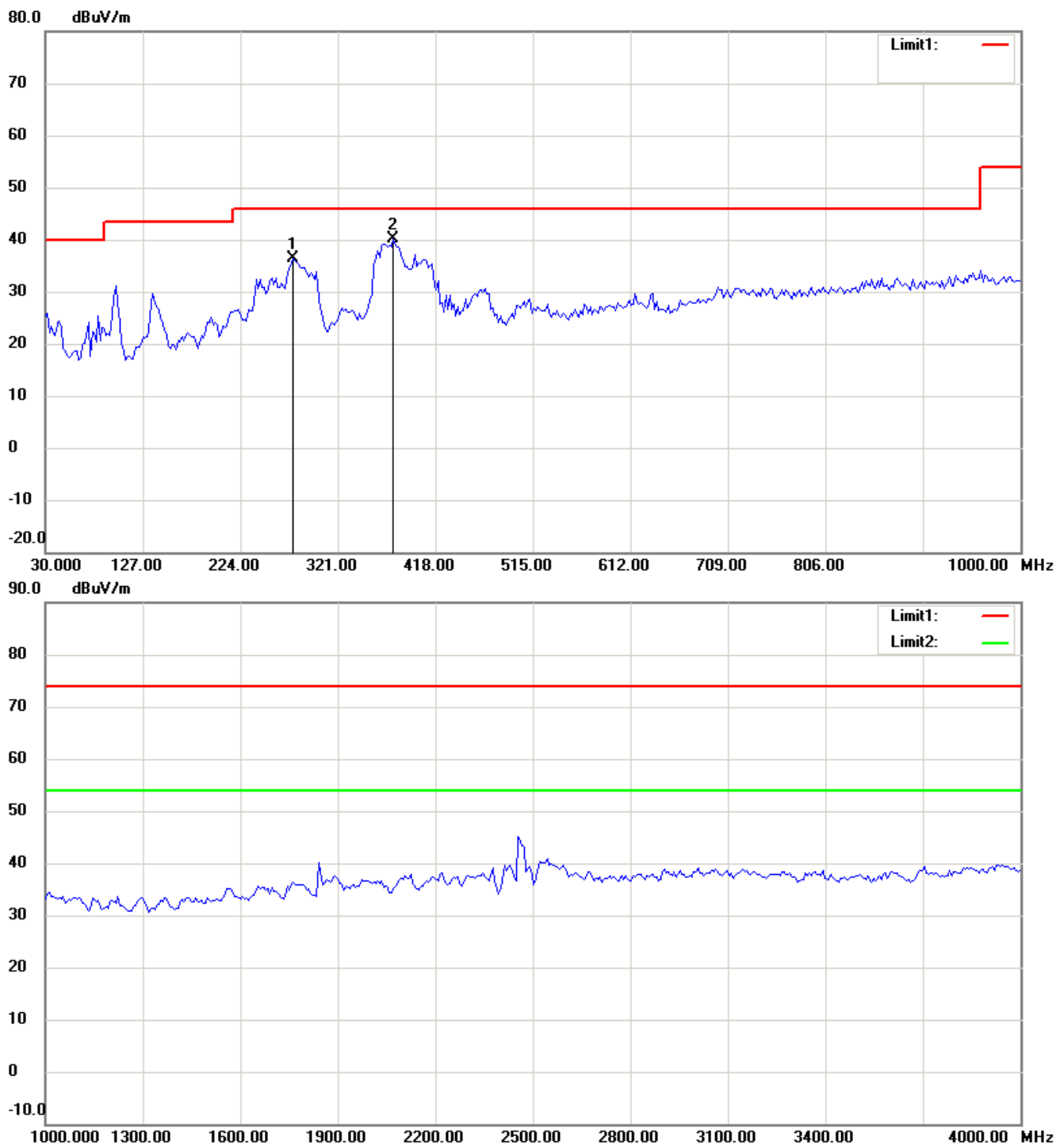


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

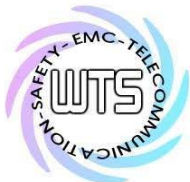


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

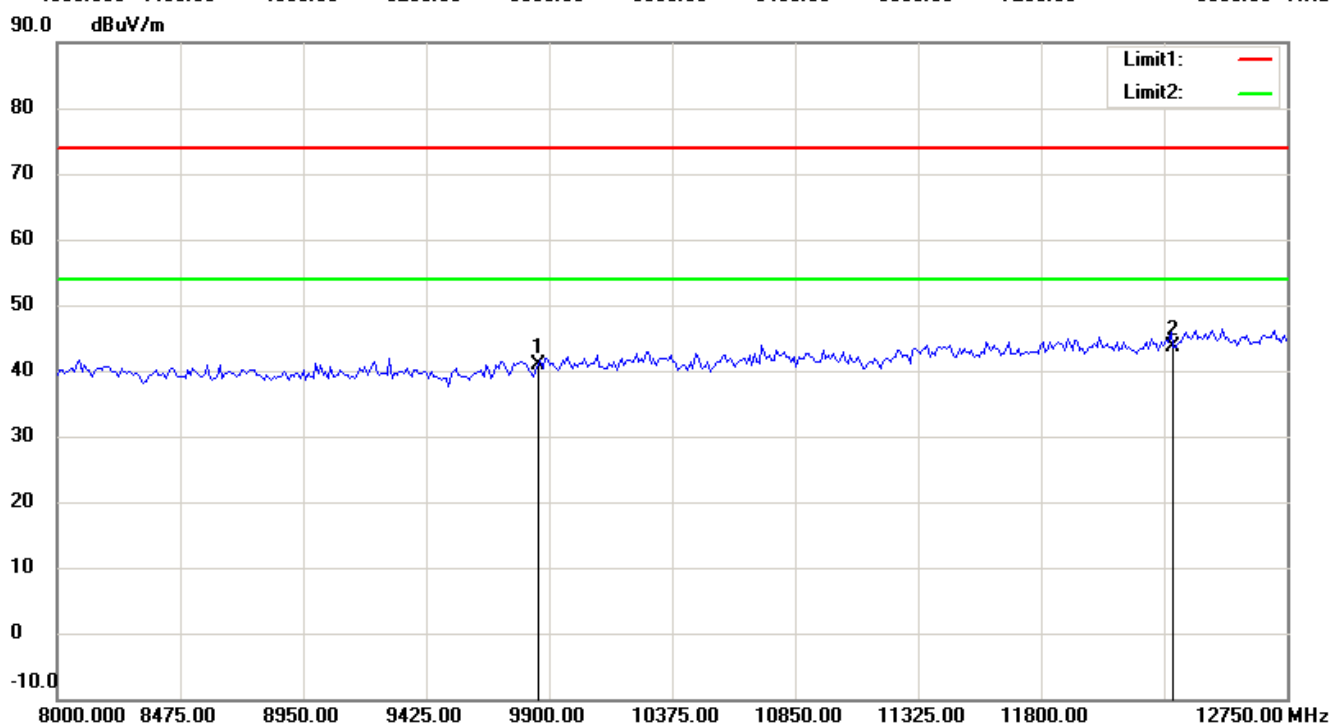
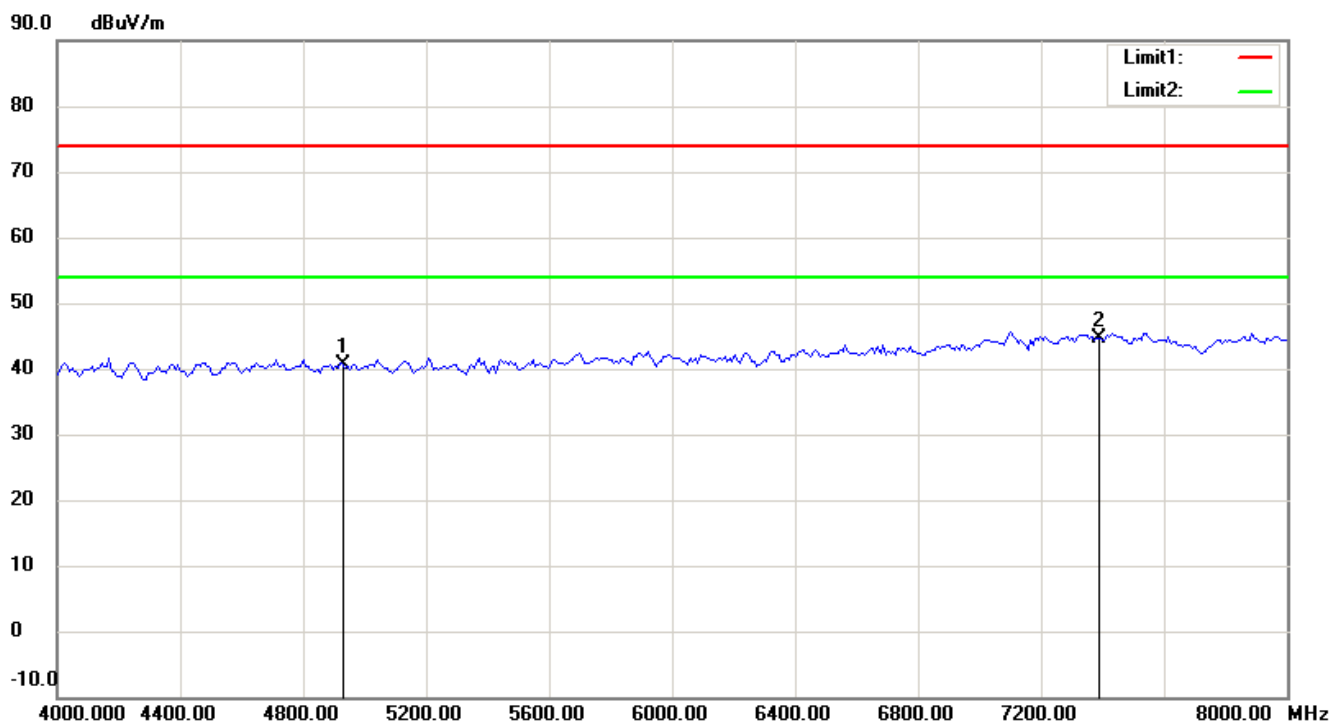
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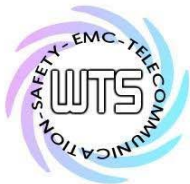
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

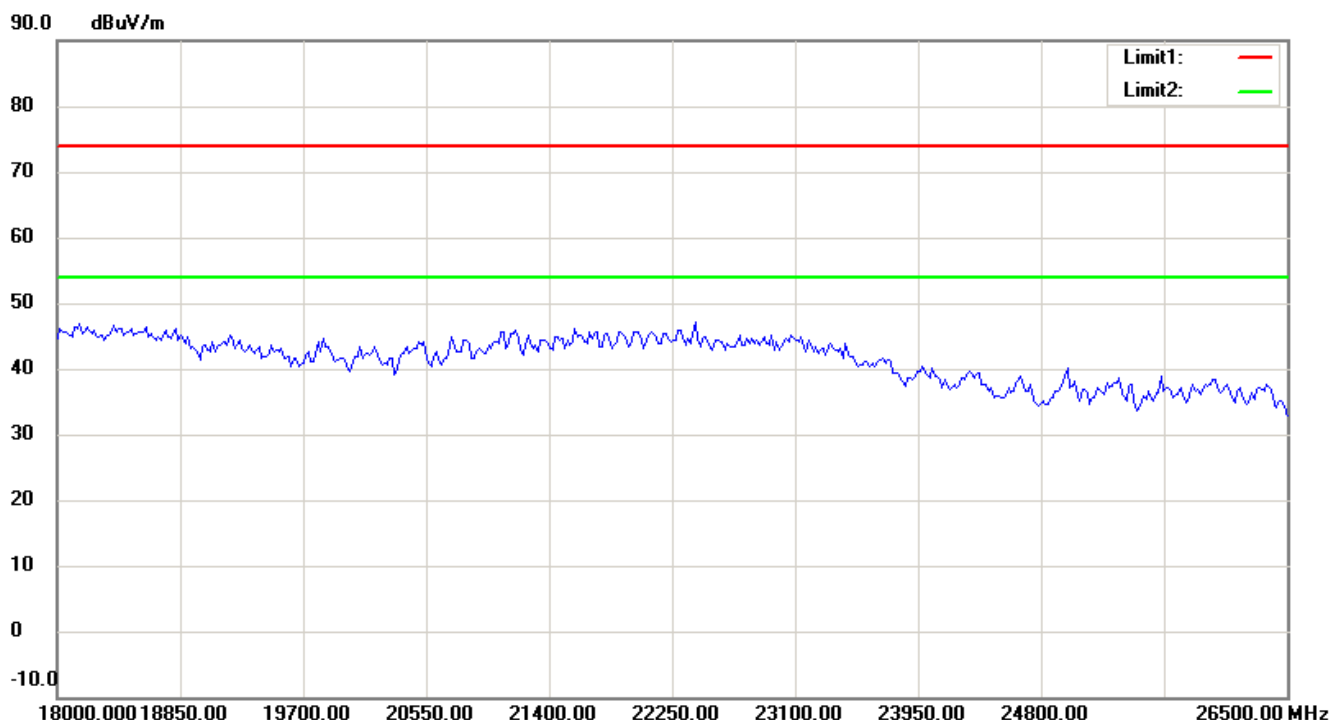
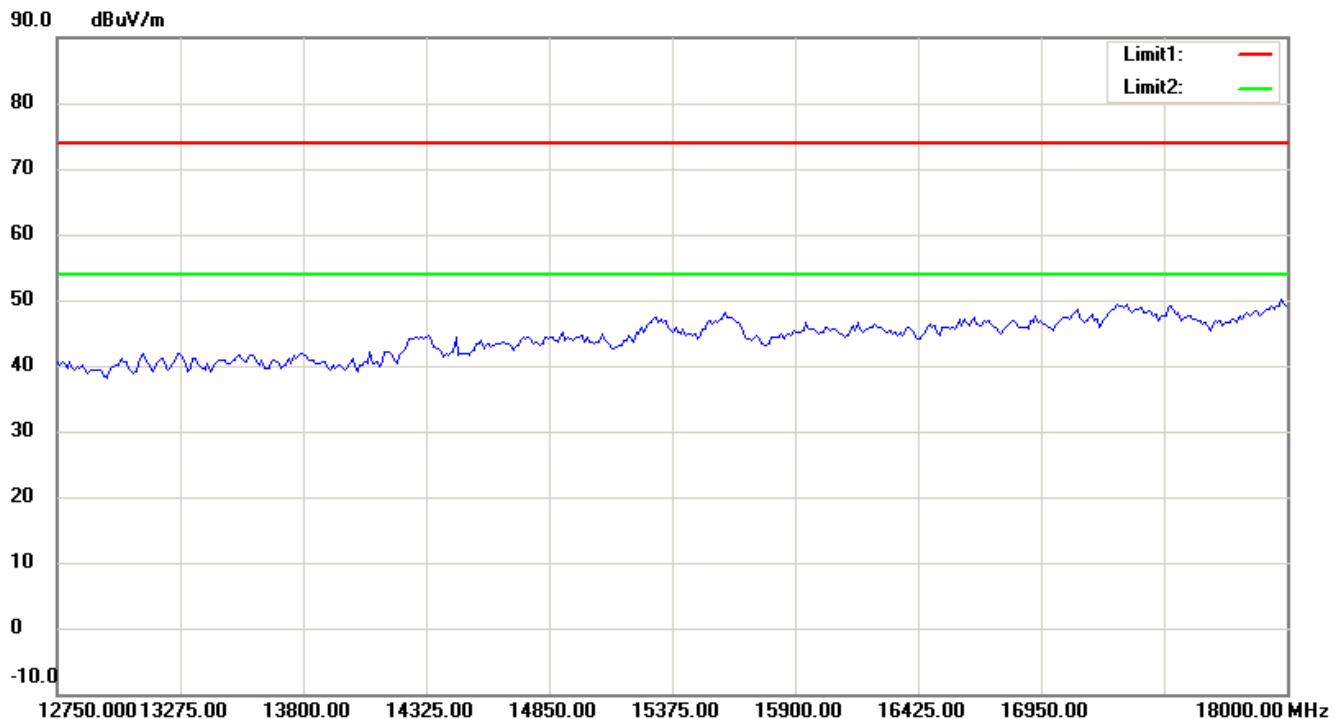
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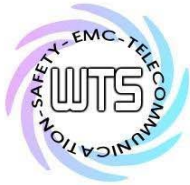
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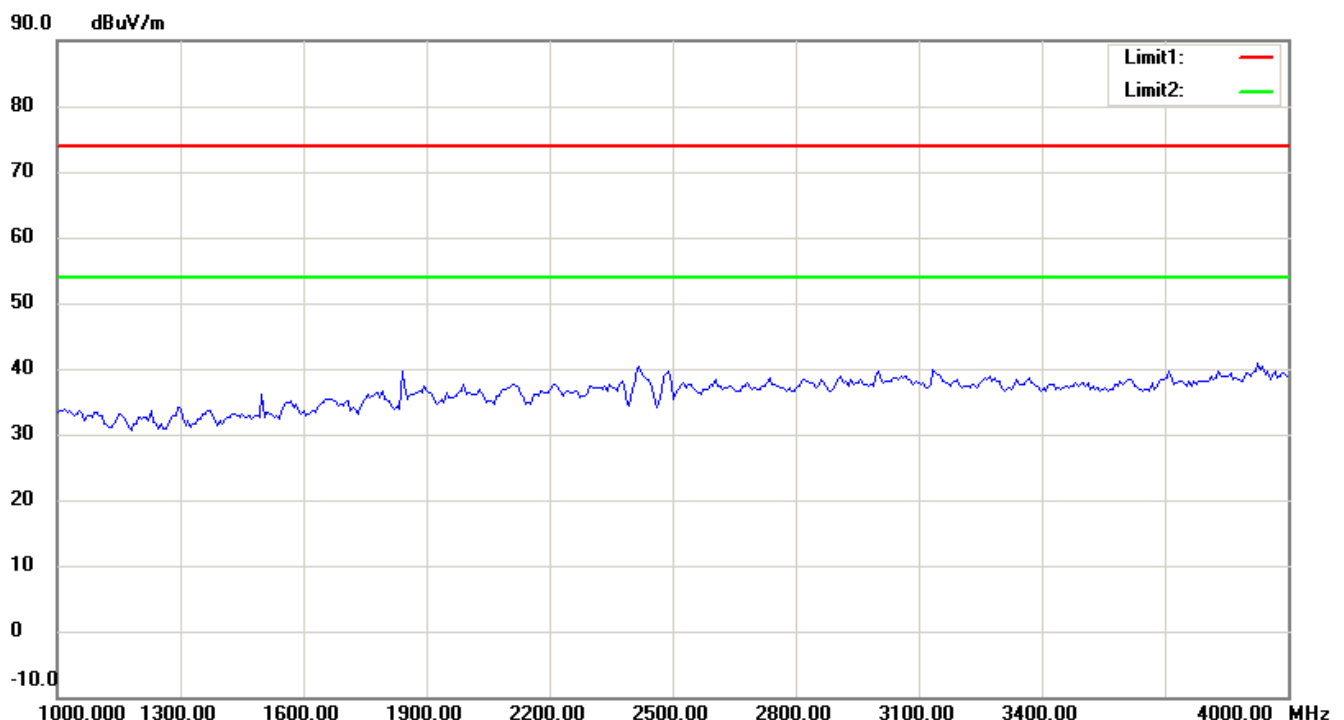
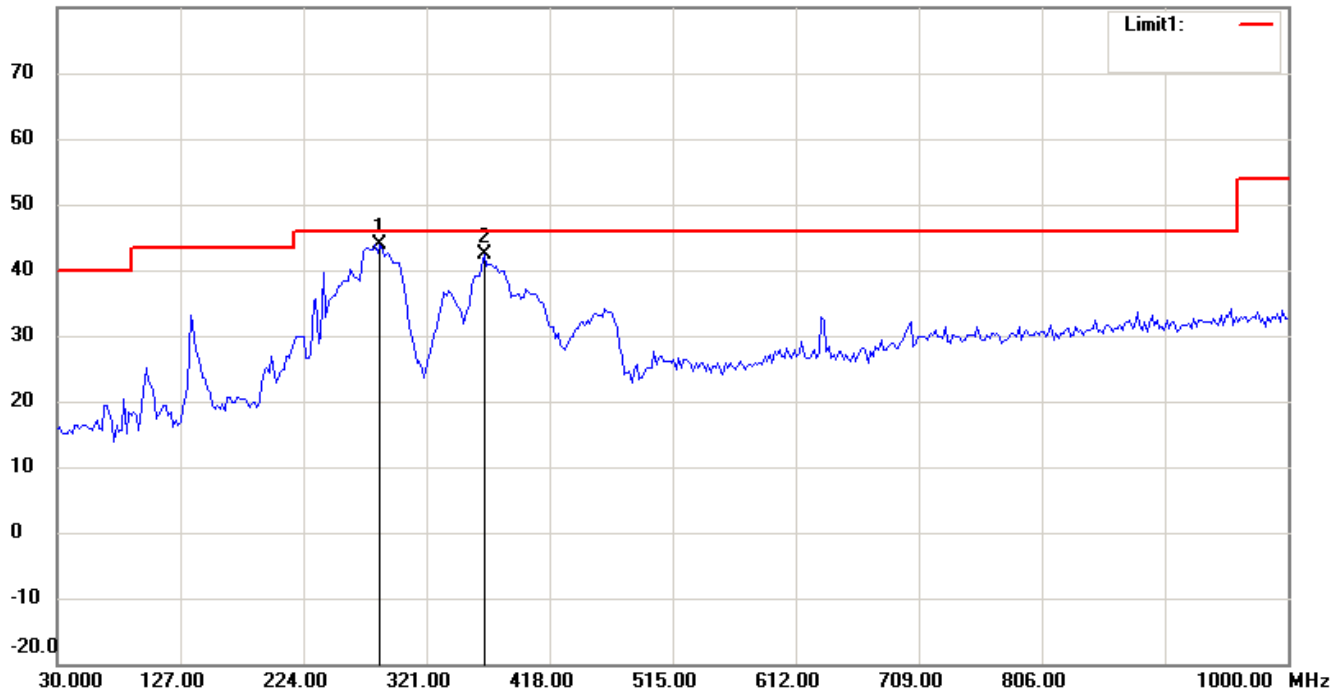
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11n 20MHz CH1

Antenna Polarization H

80.0 dBuV/m

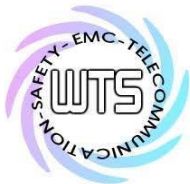


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

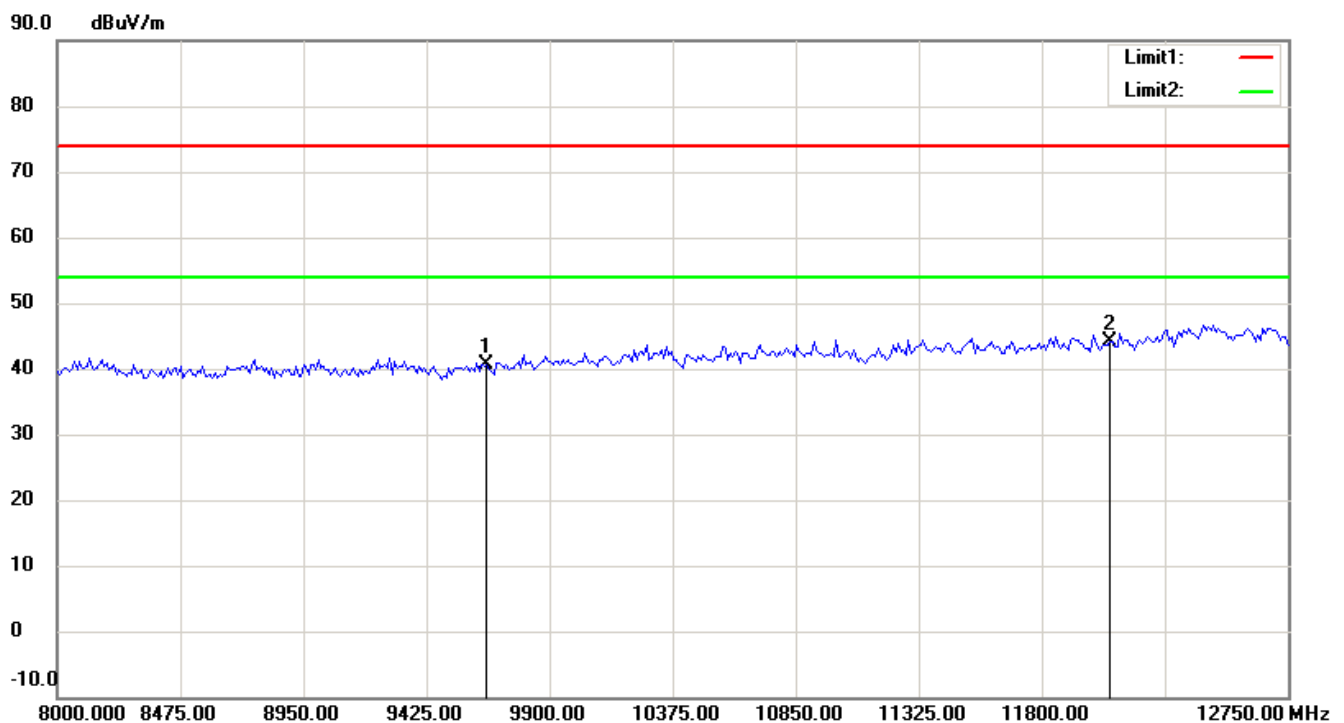
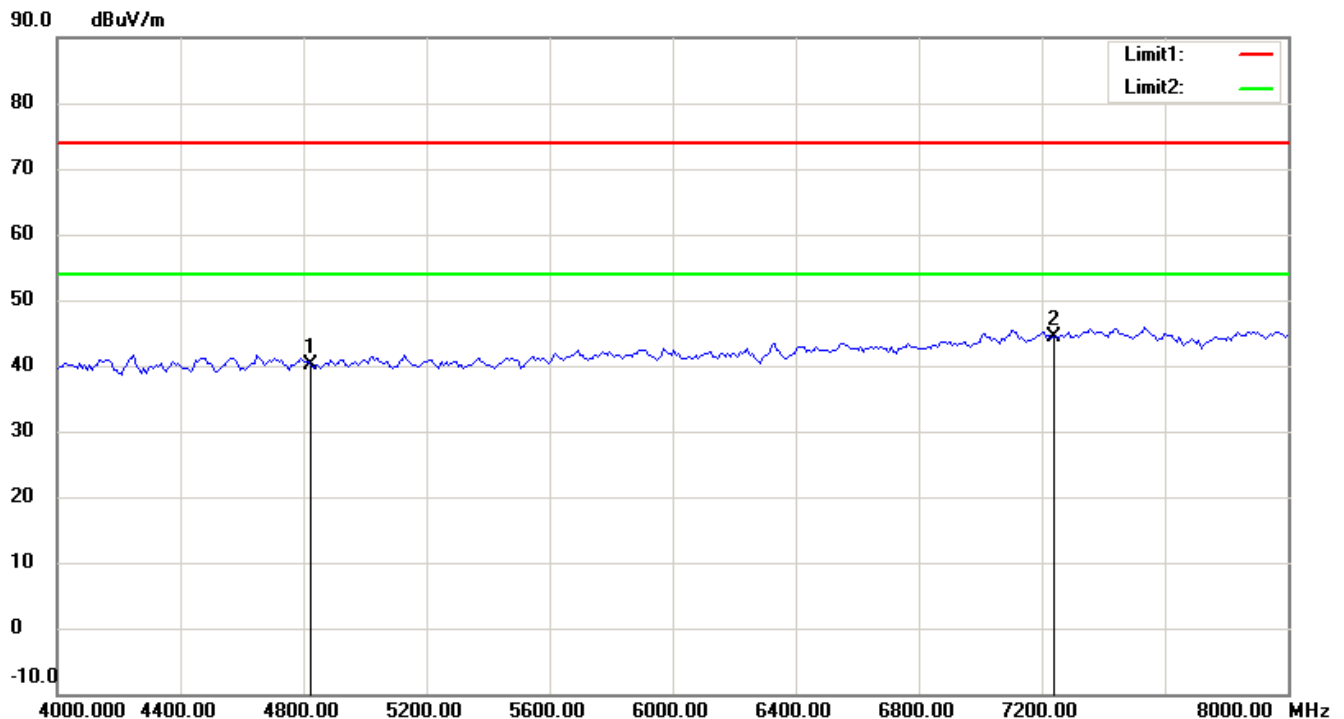
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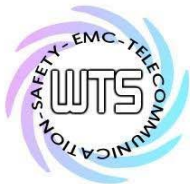
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

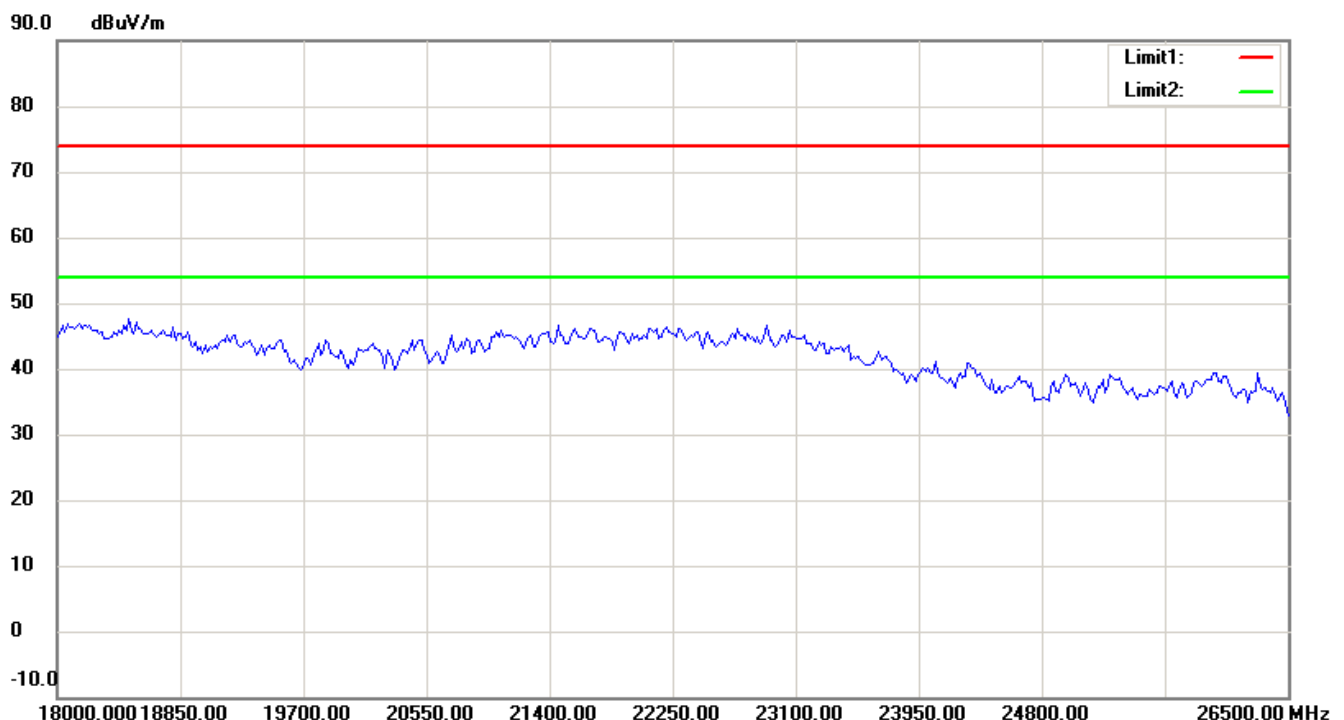
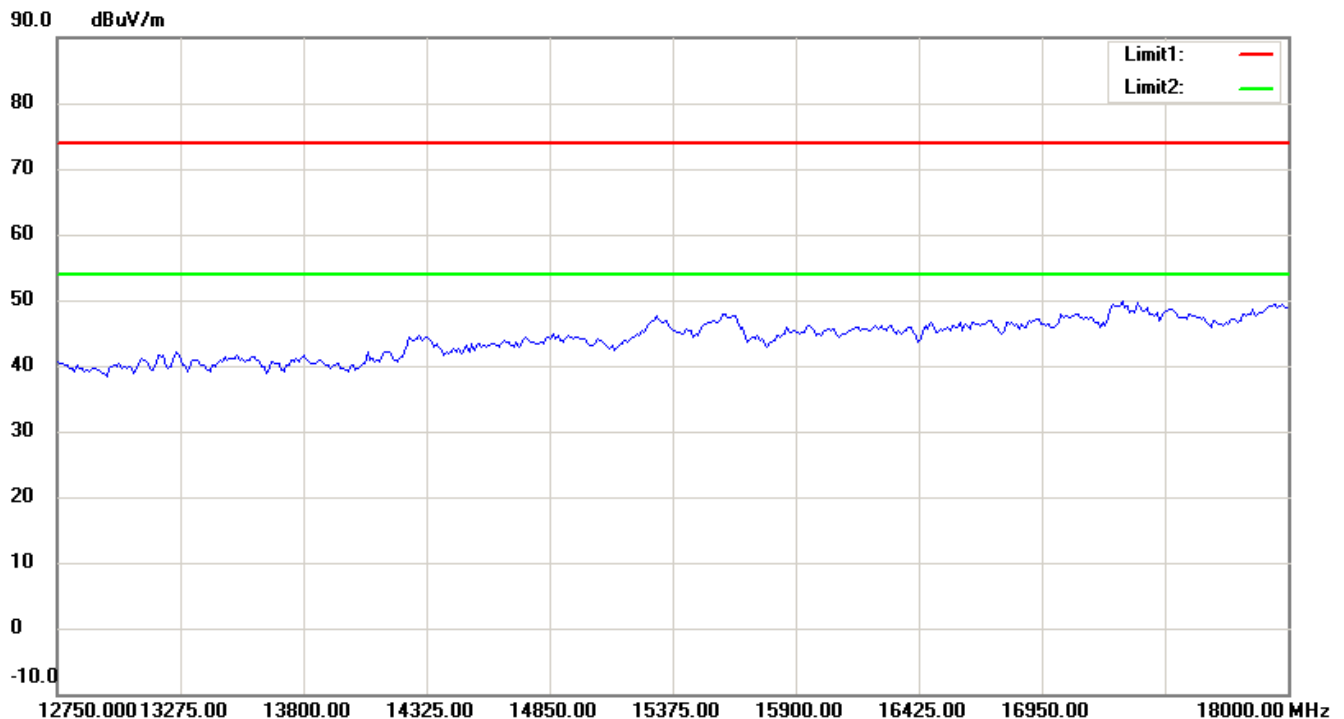
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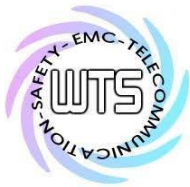
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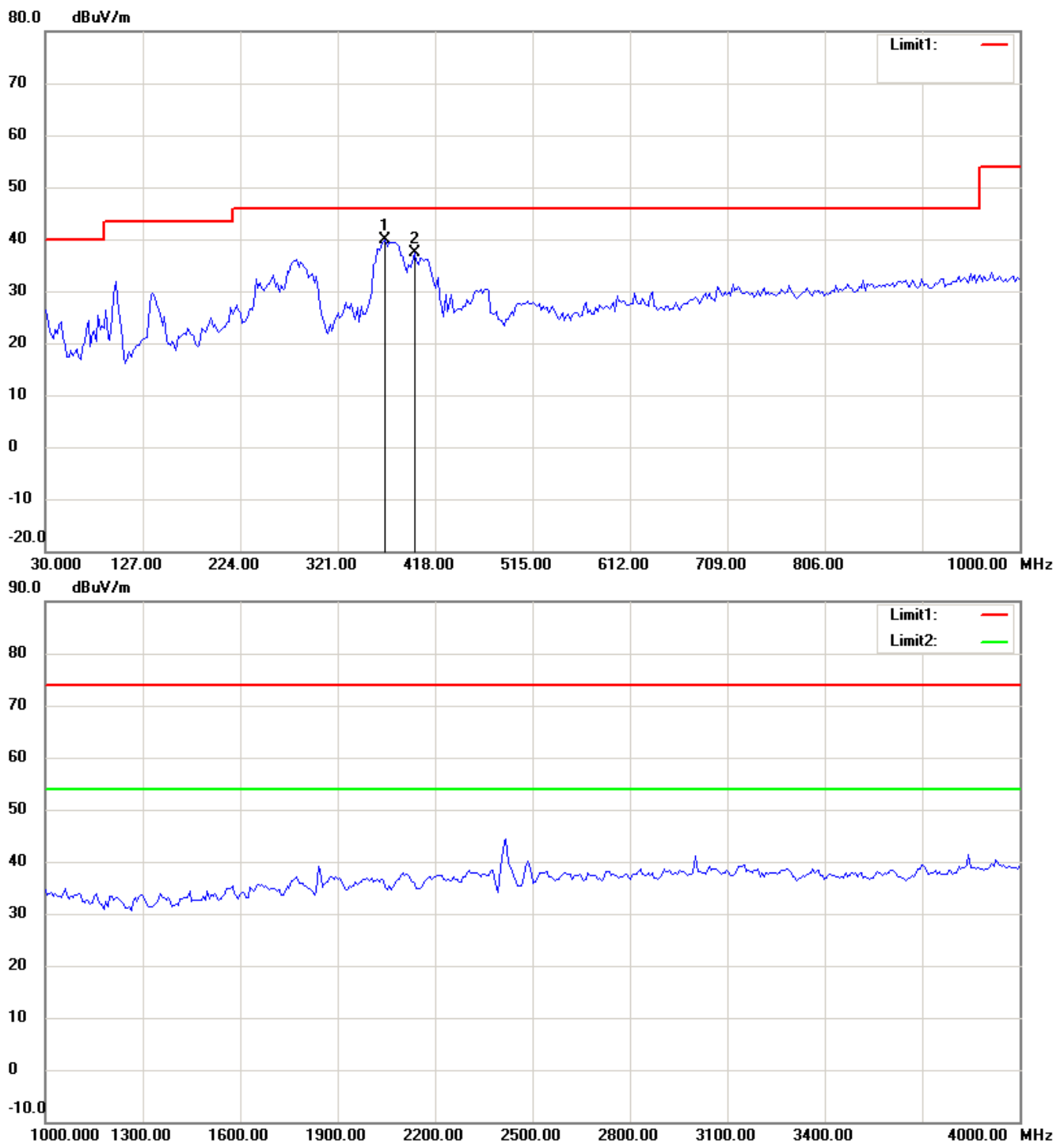


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

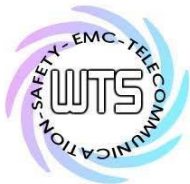


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

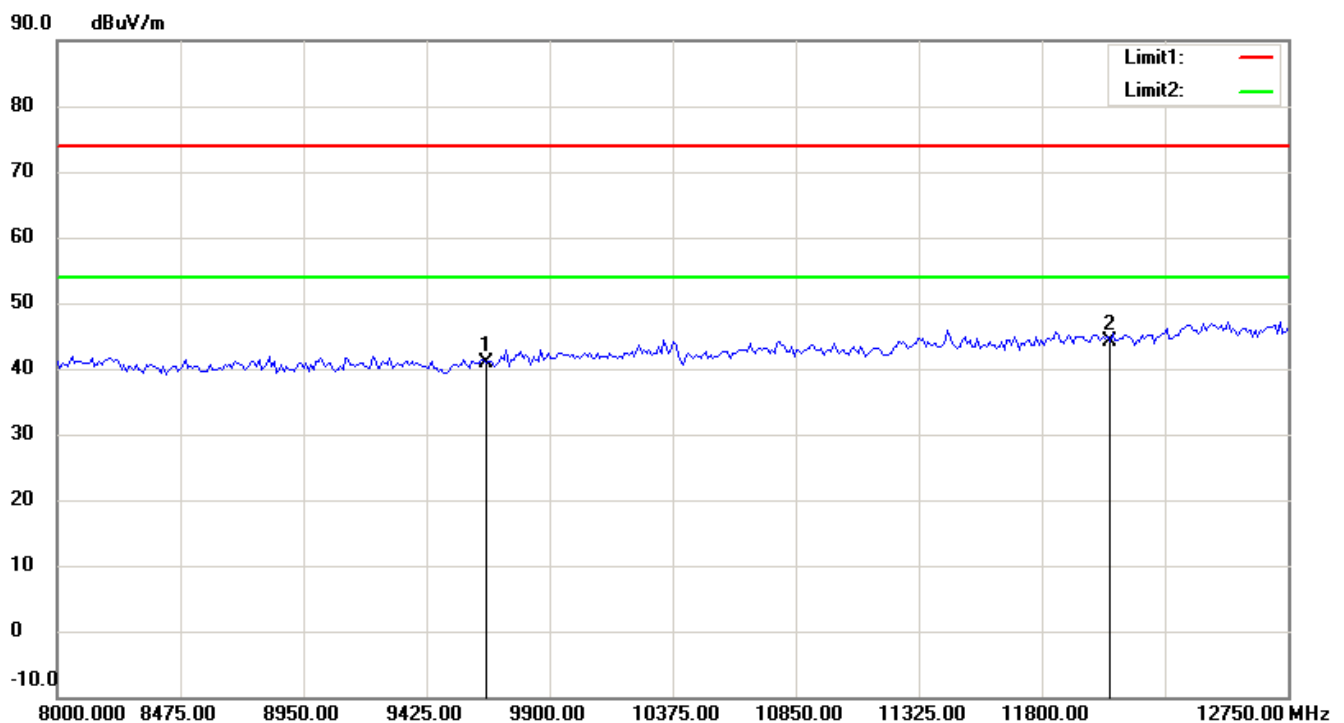
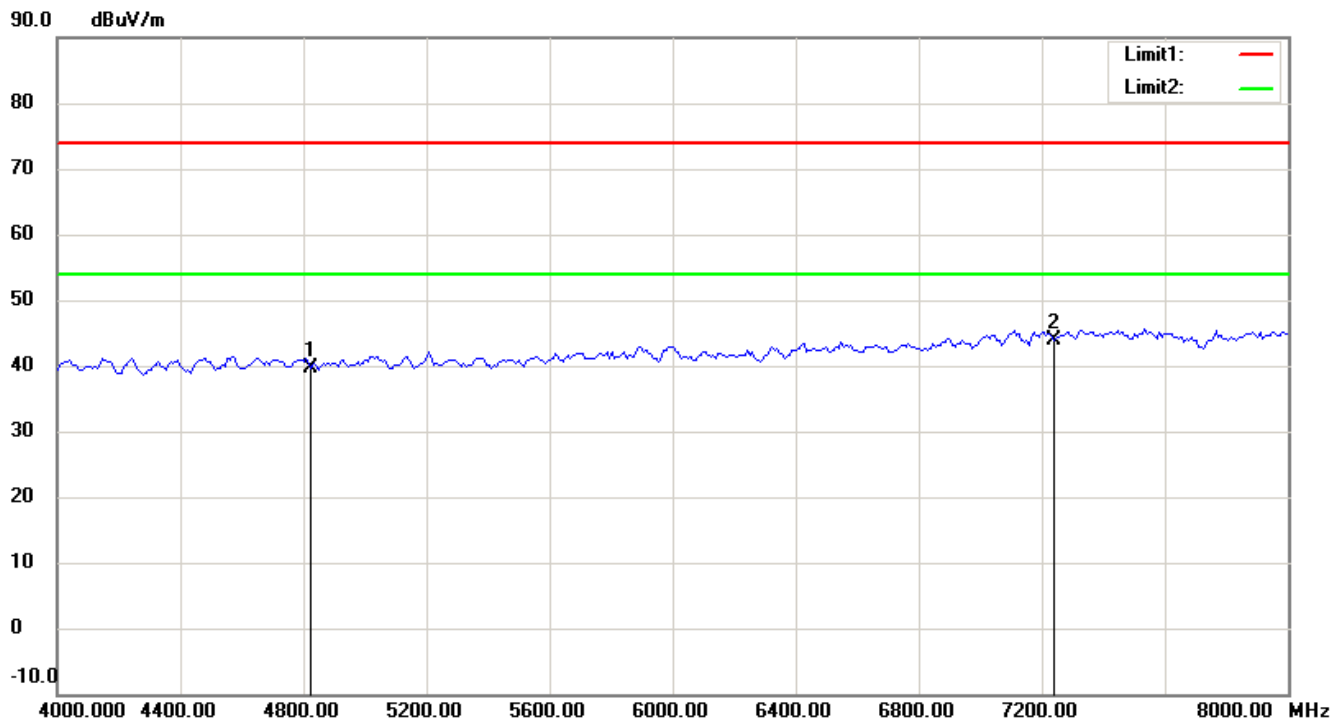
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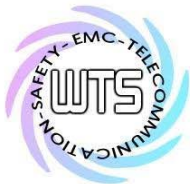
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

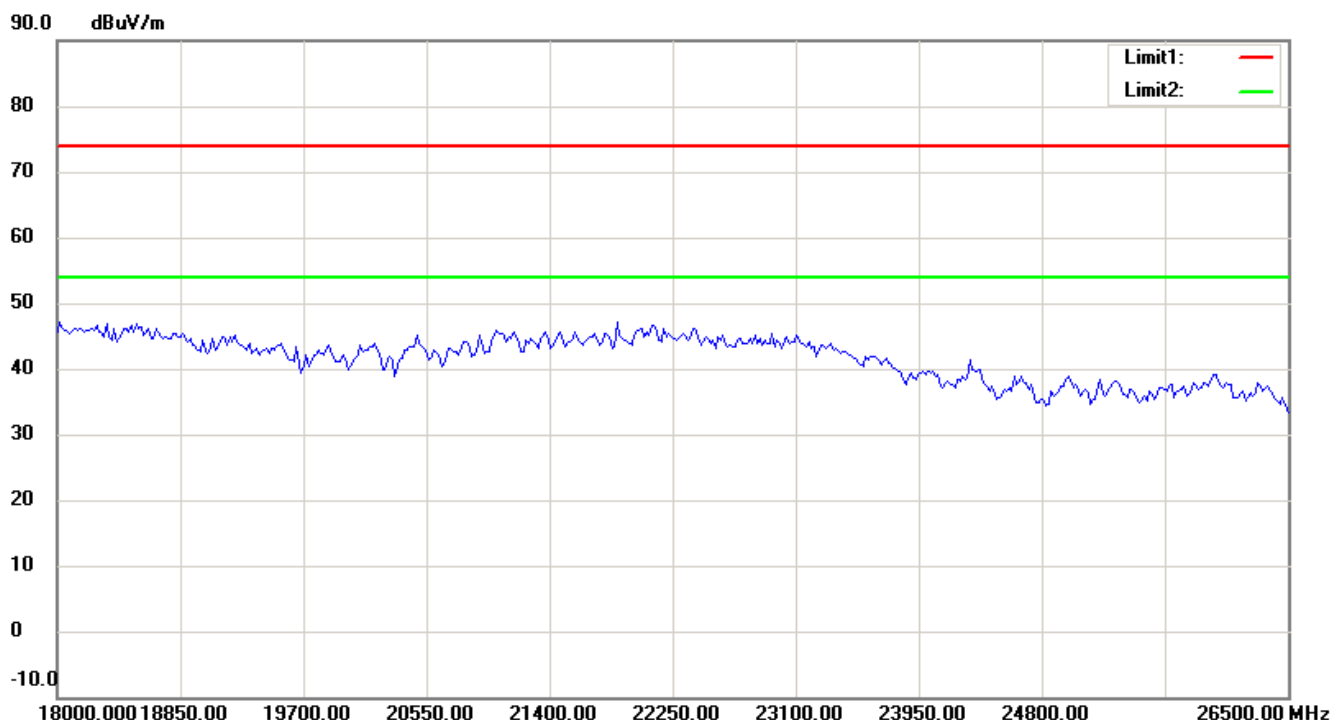
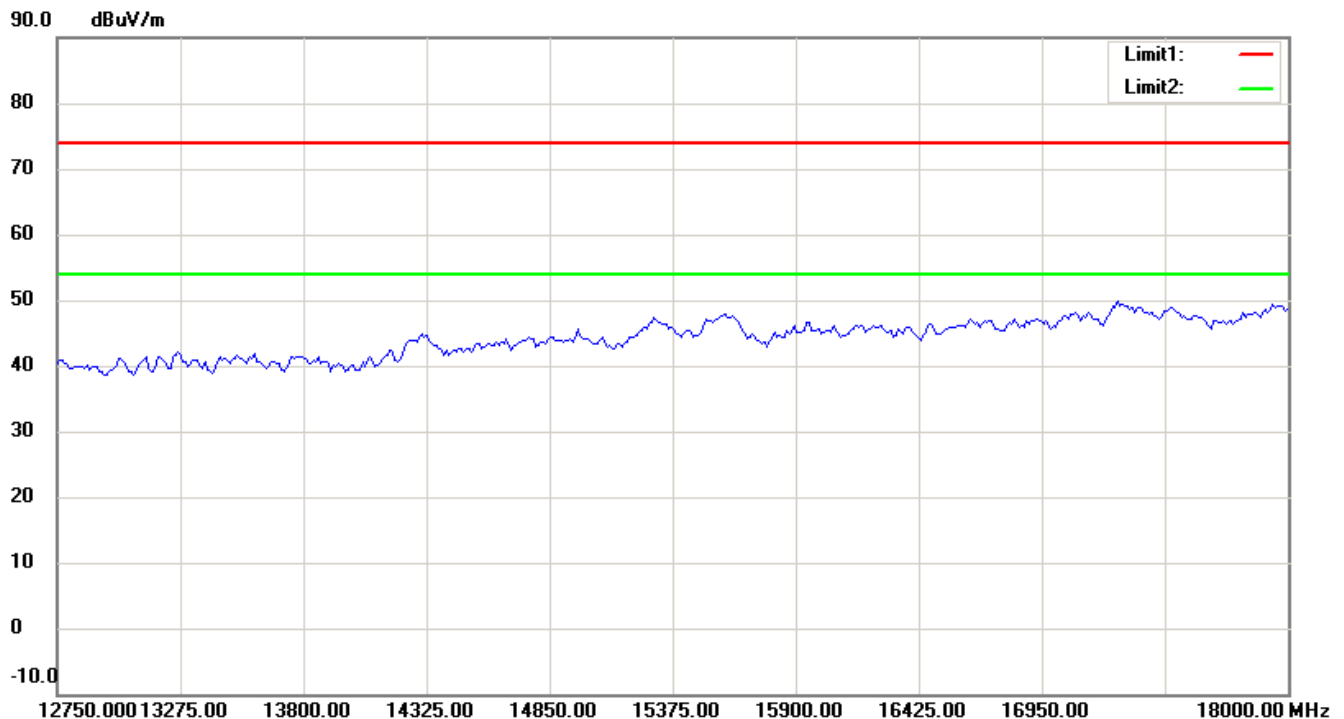
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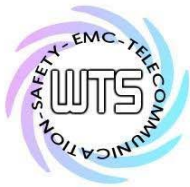
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Down Line: Ave Limit Line

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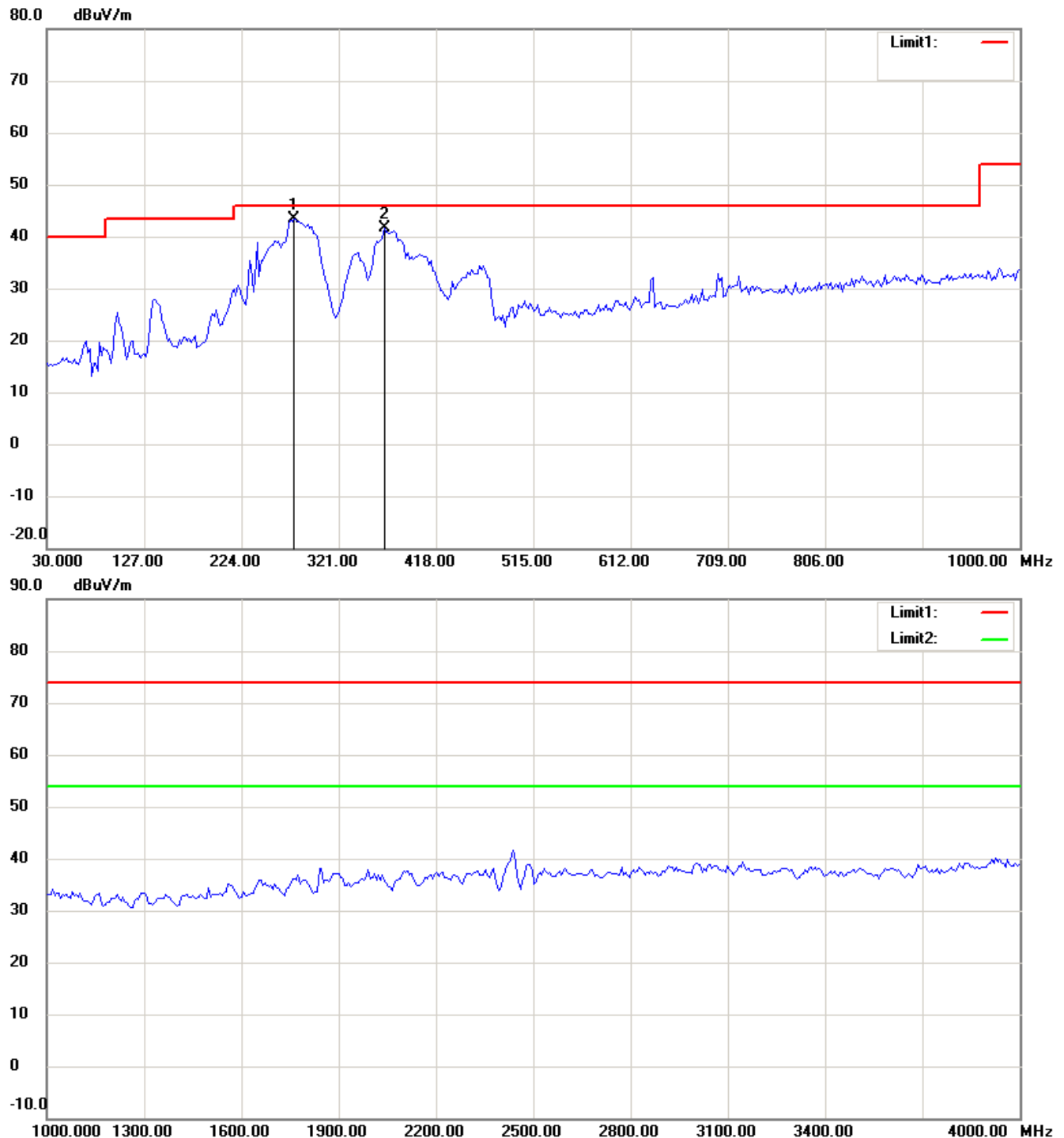
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11n 20MHz CH6

Antenna Polarization H

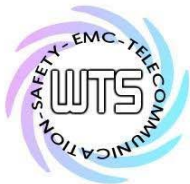


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

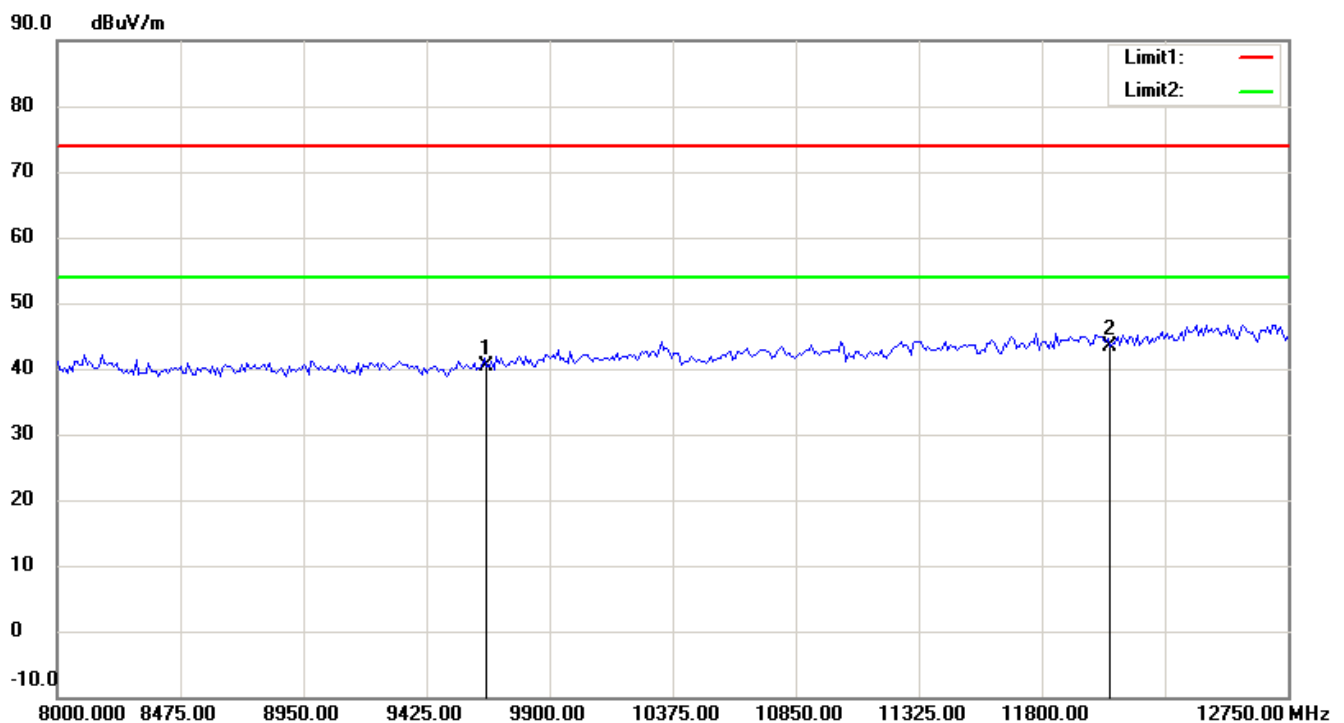
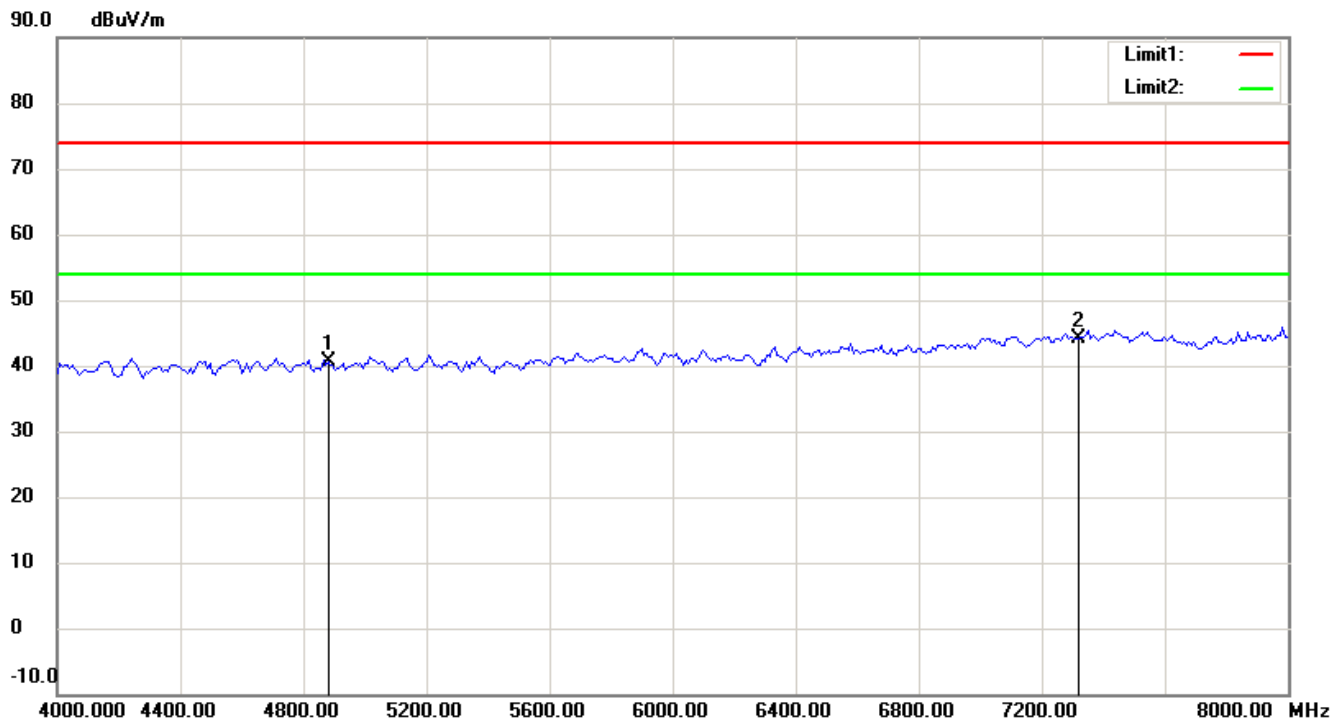
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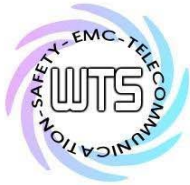
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

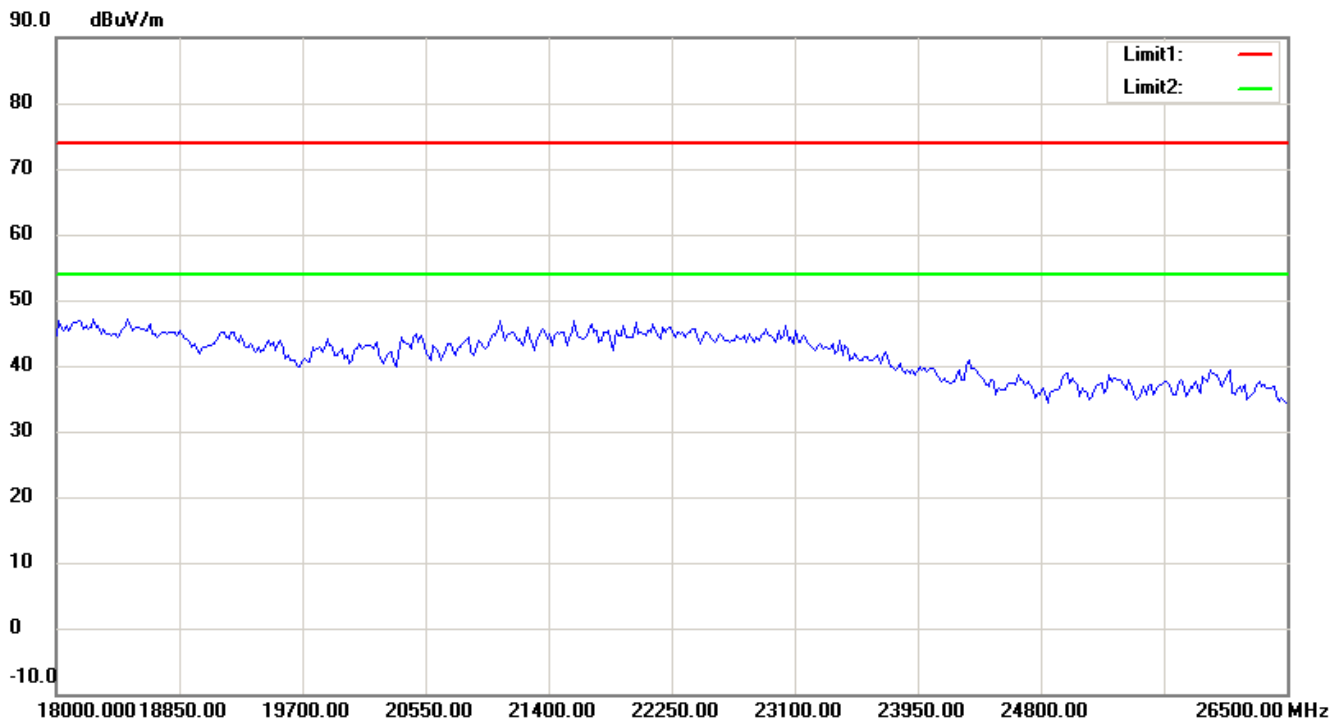
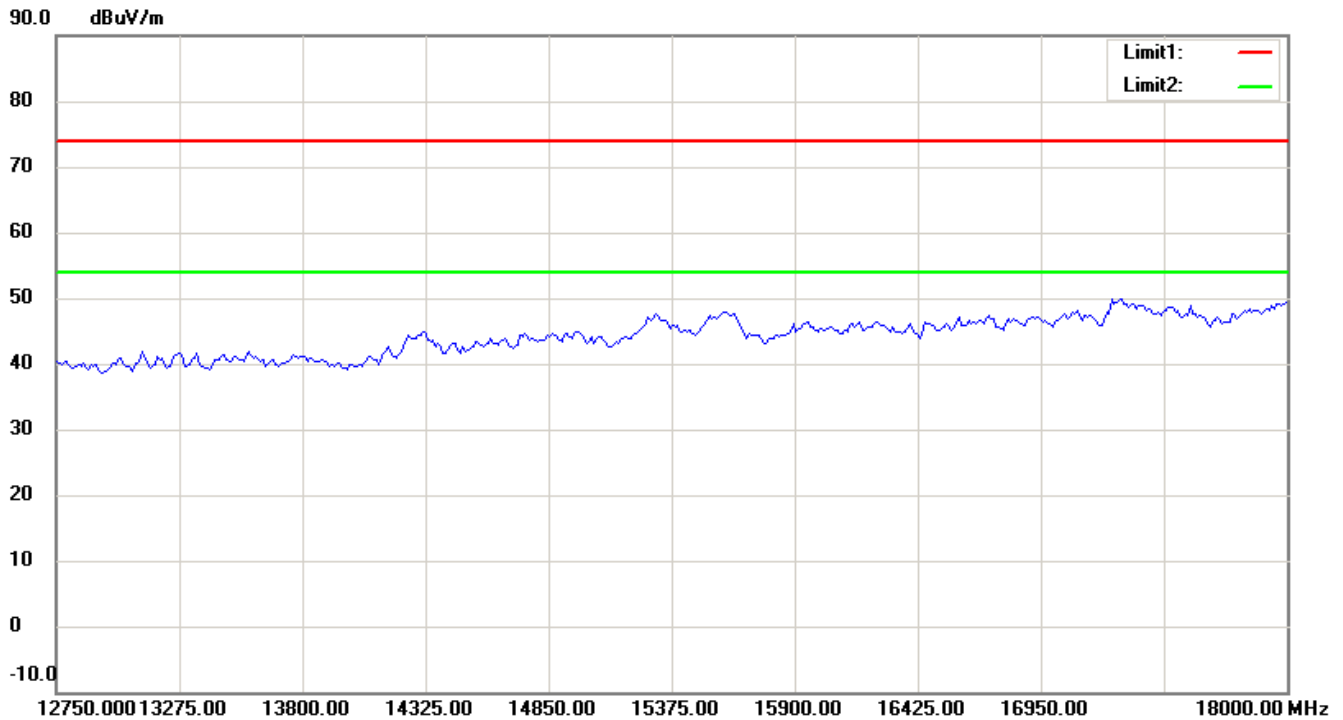
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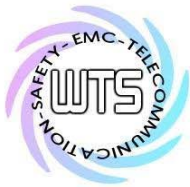
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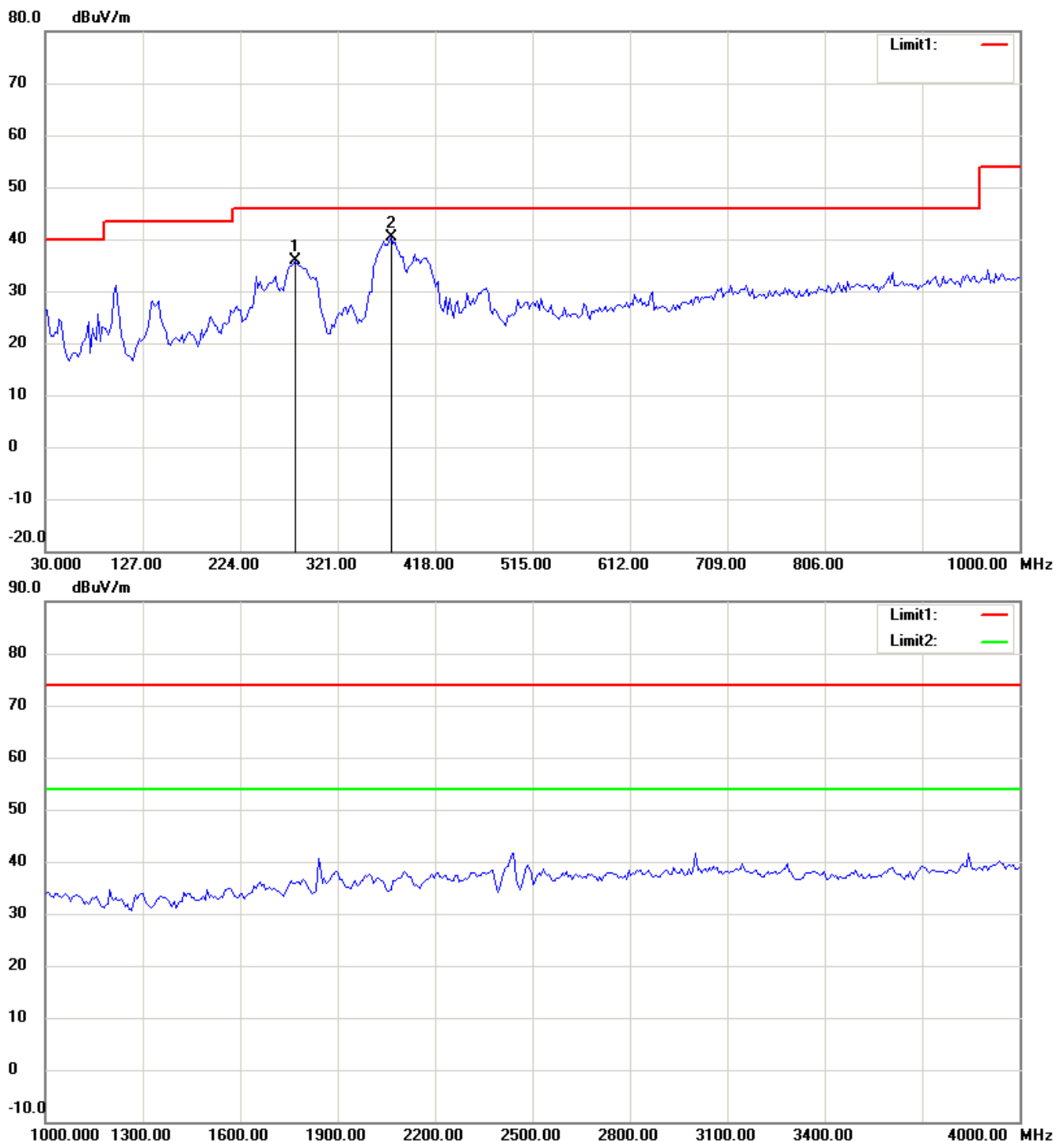


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

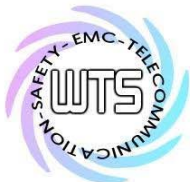


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

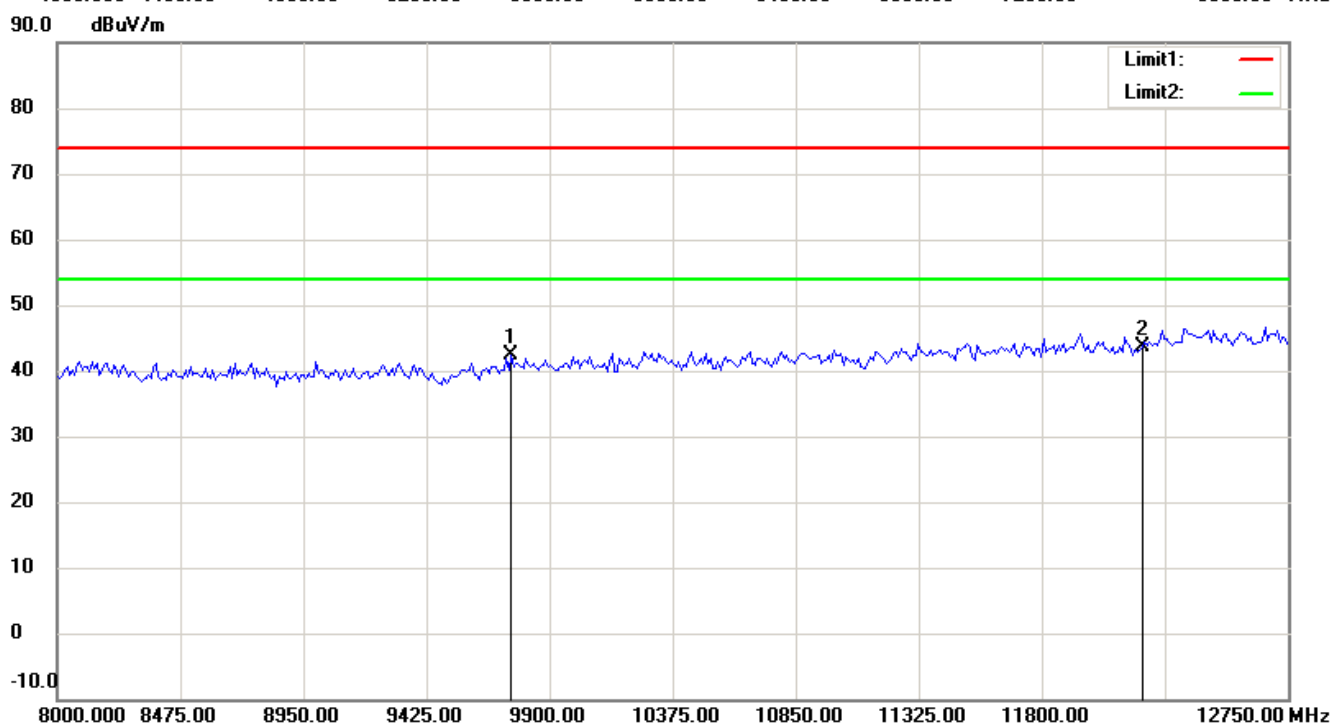
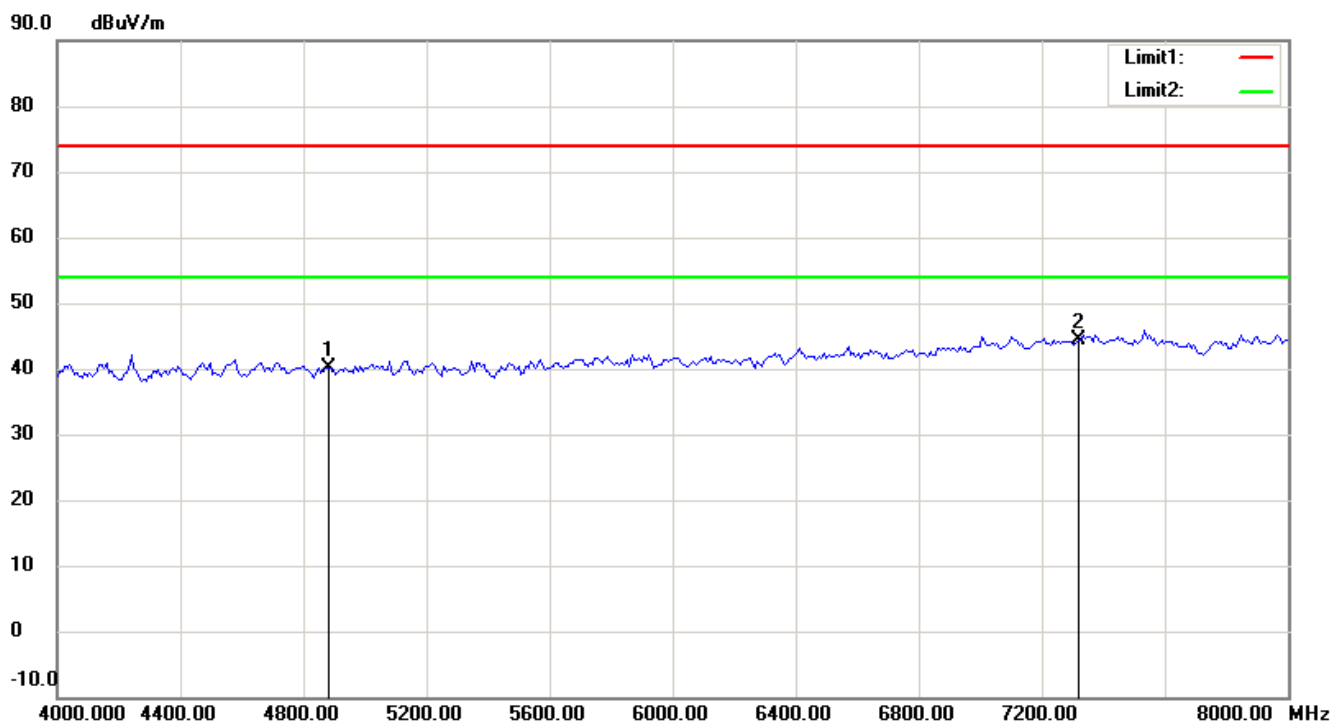
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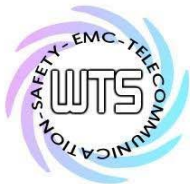
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

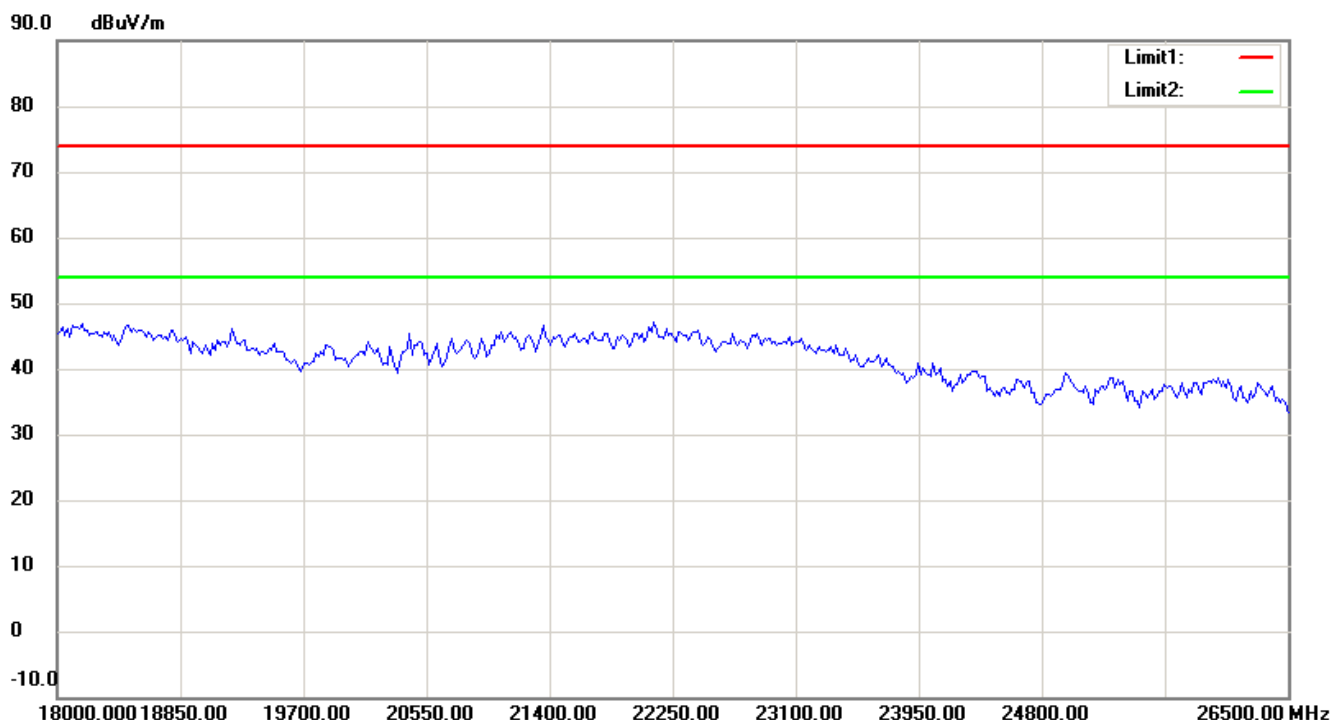
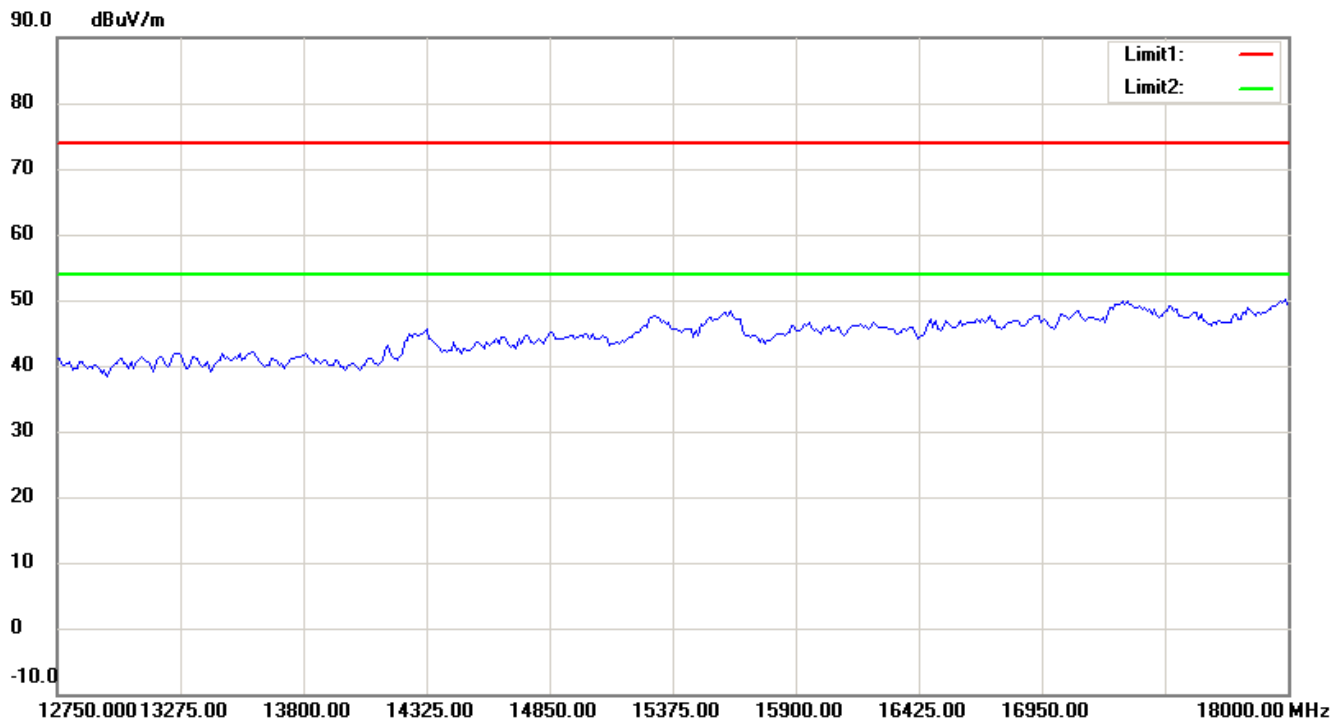
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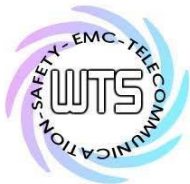
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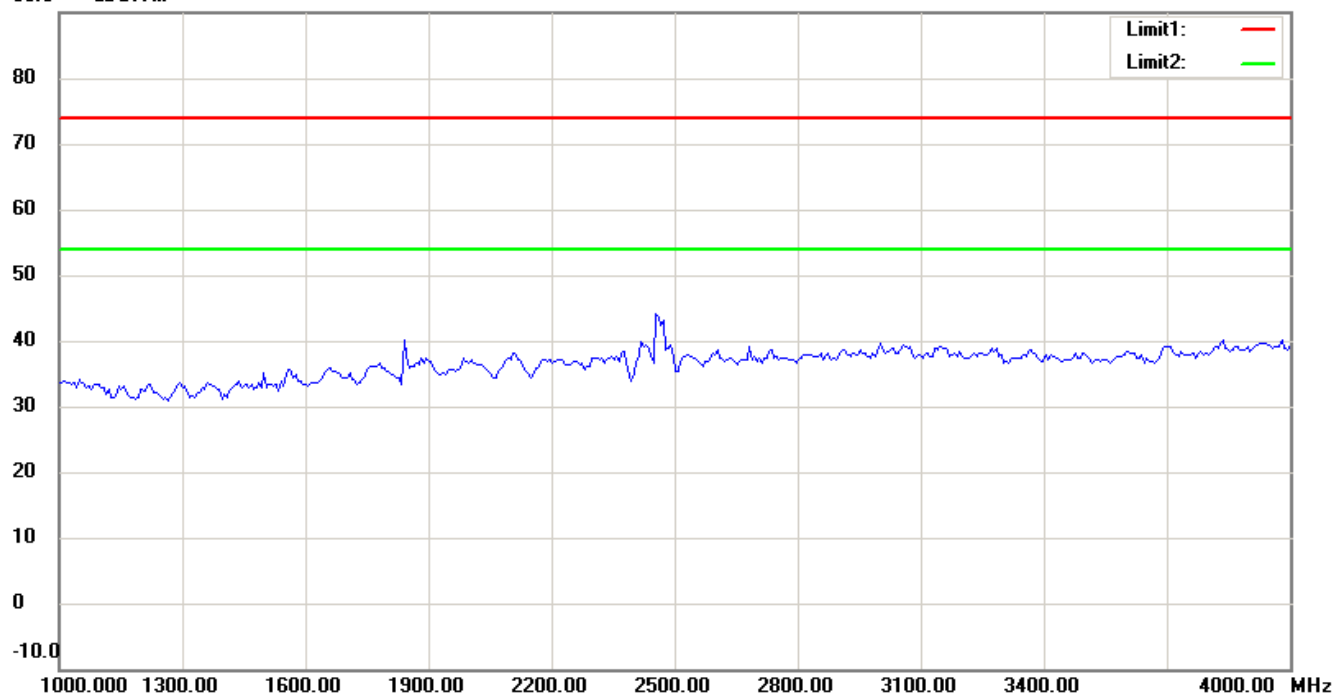
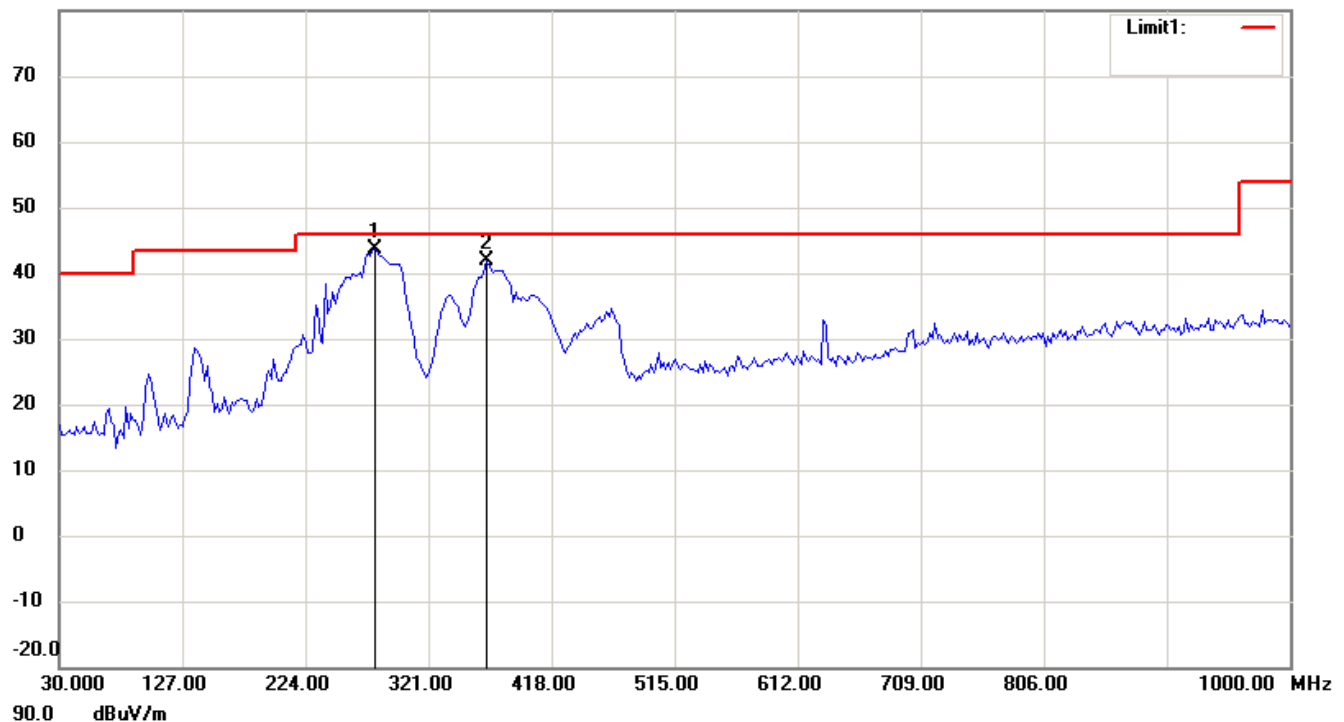
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FCC ID: Q7A65000W0

802.11n 20MHz CH11

Antenna Polarization H

80.0 dBuV/m

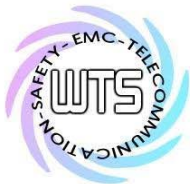


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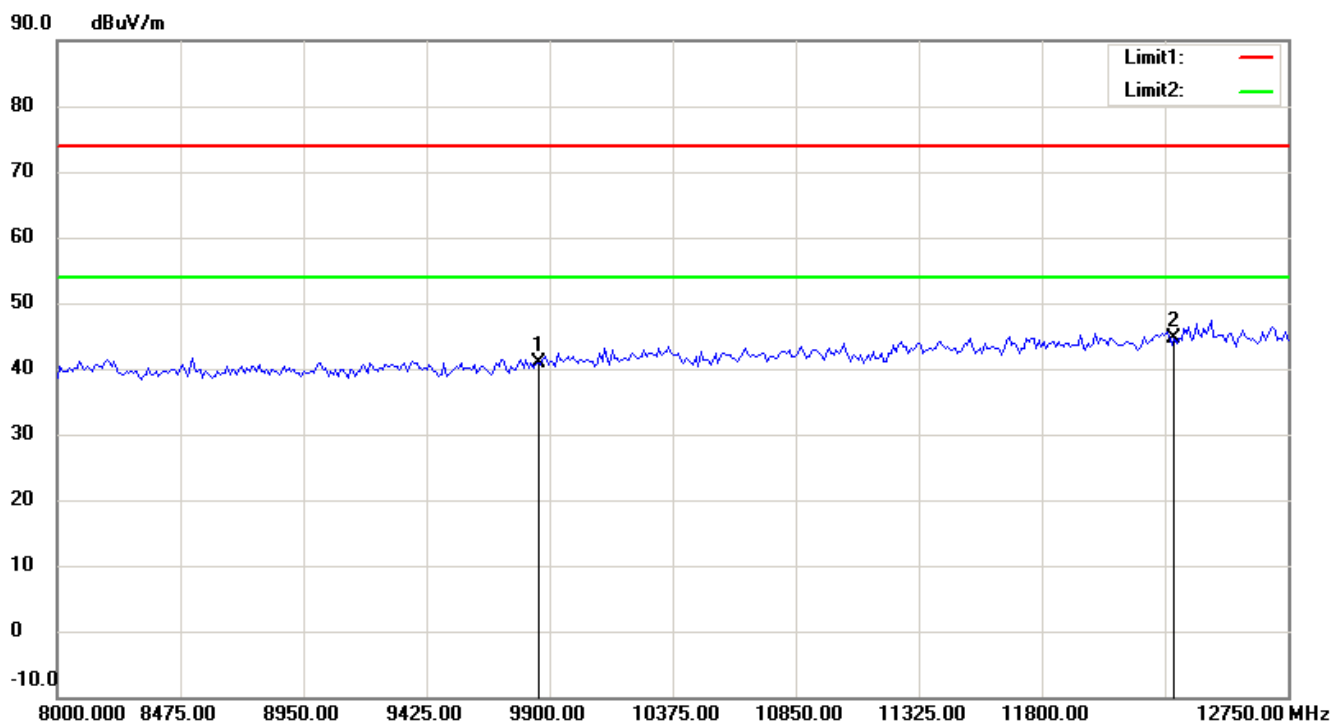
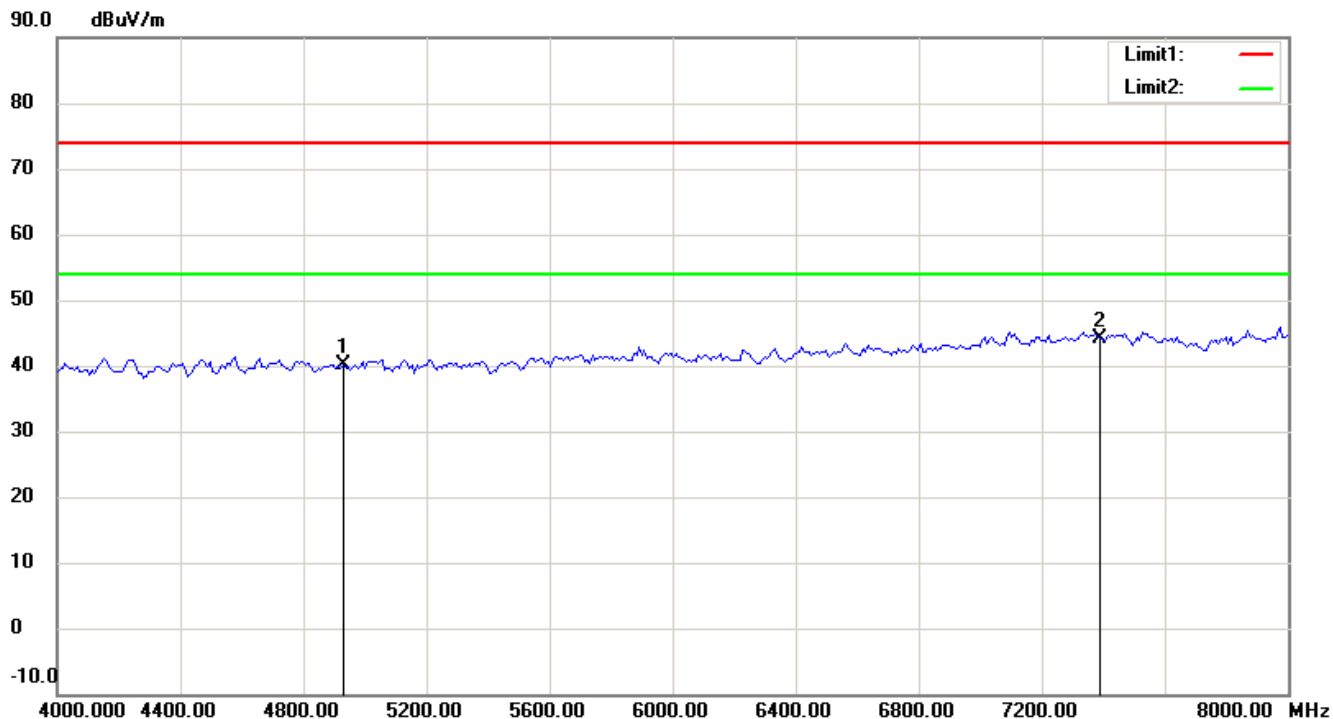
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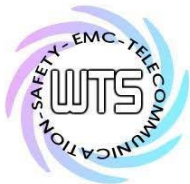
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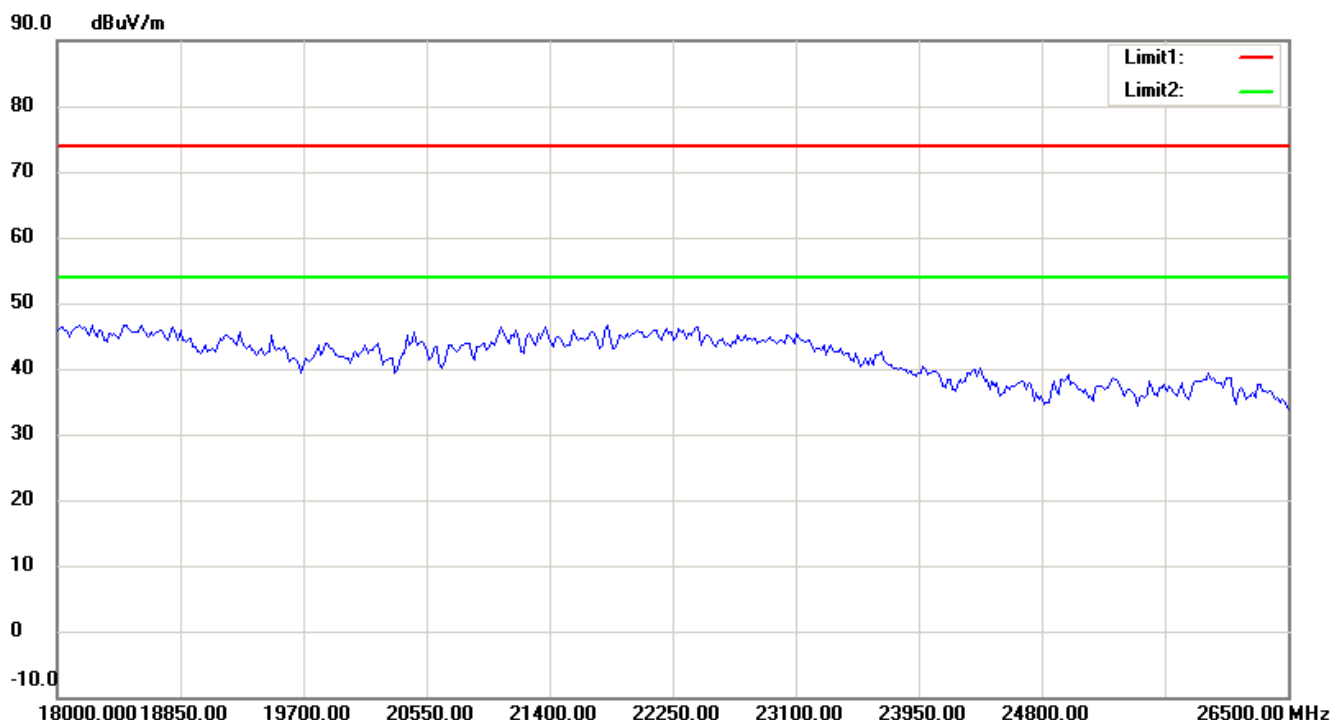
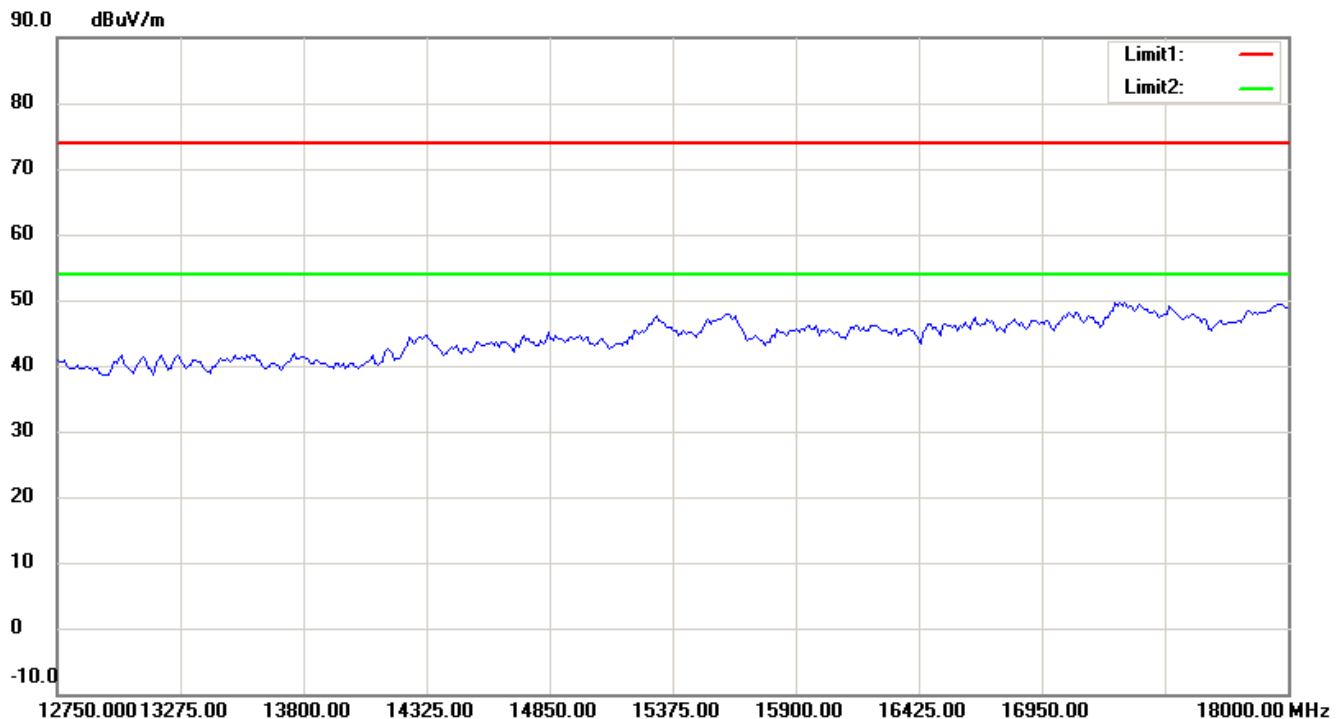
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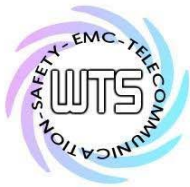
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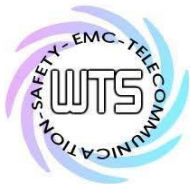
Antenna Polarization V



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

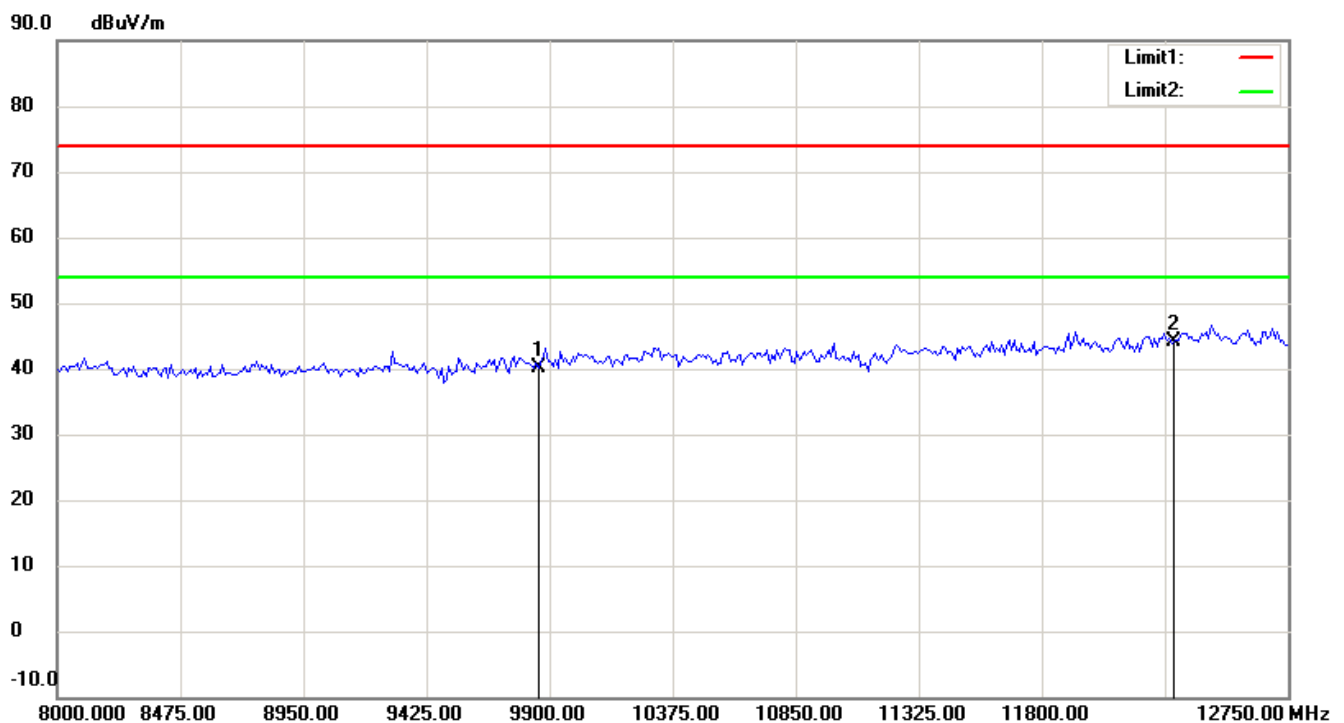
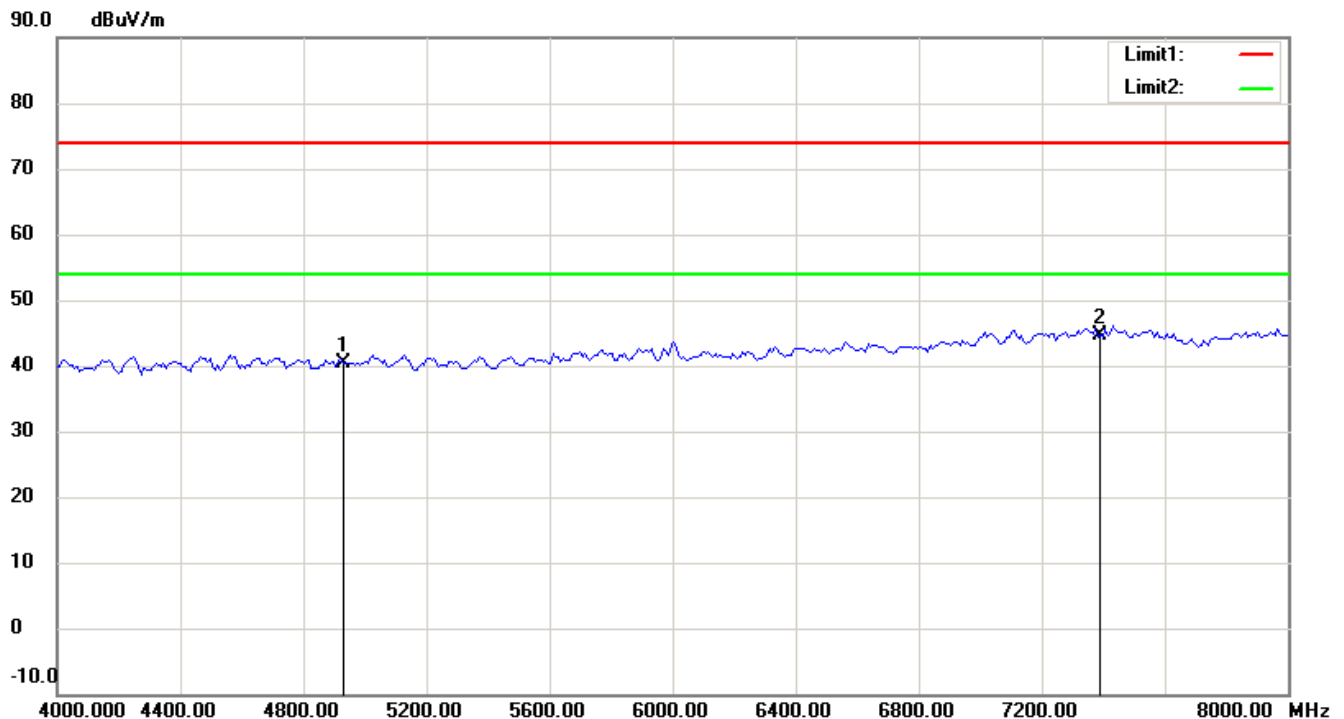
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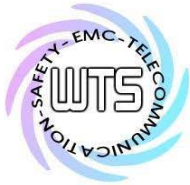
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

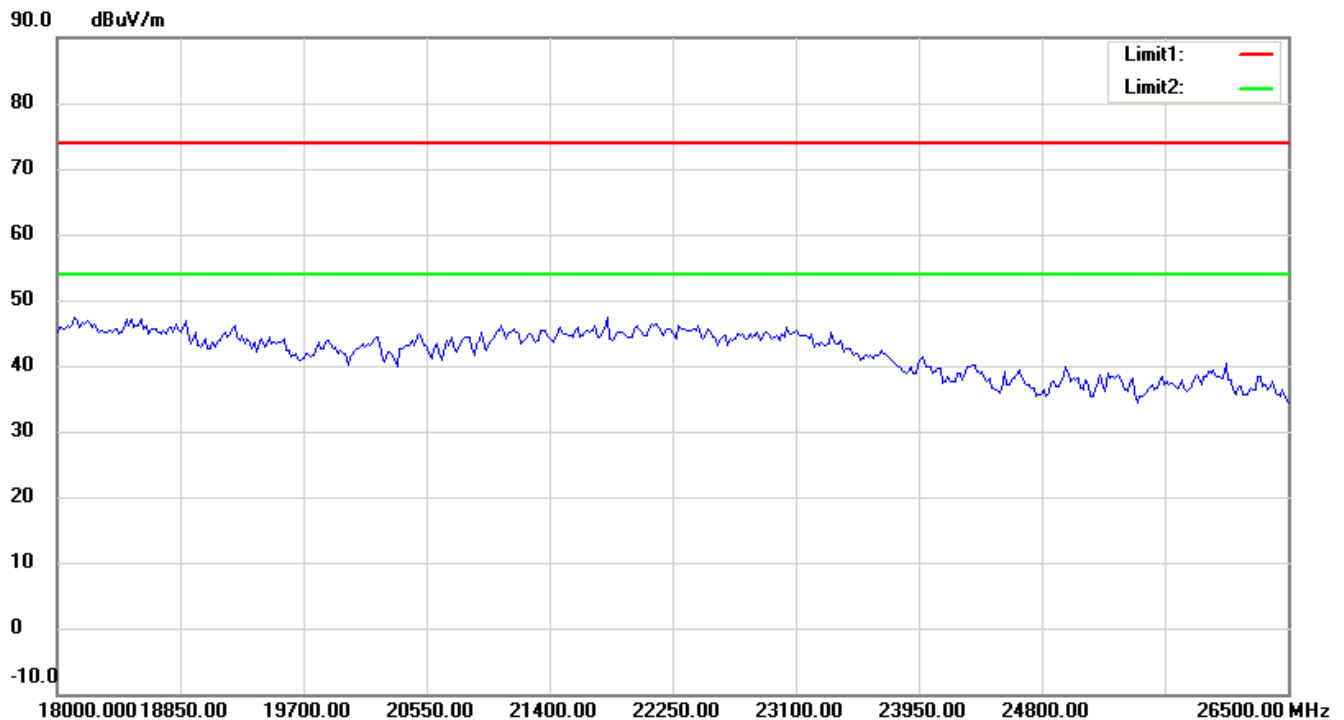
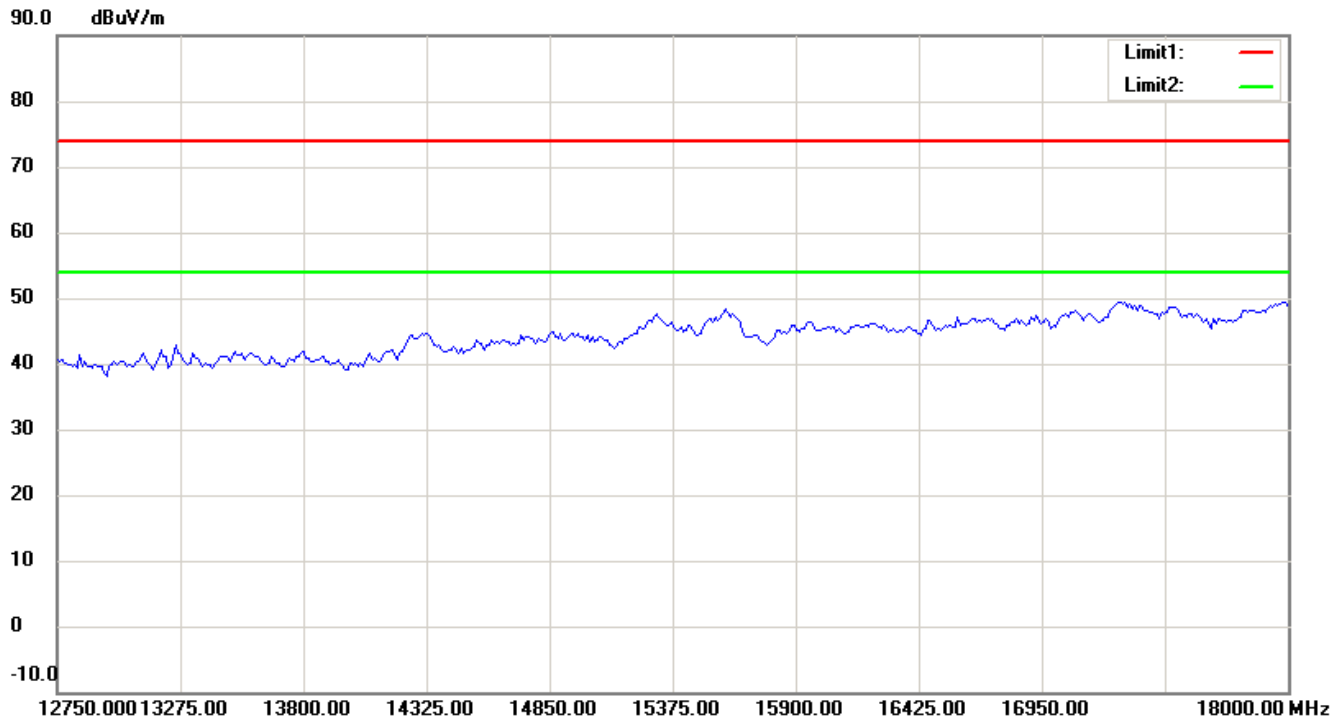
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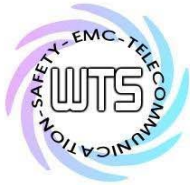
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Down Line: Ave Limit Line

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Worldwide Testing Services(Taiwan) Co., Ltd.

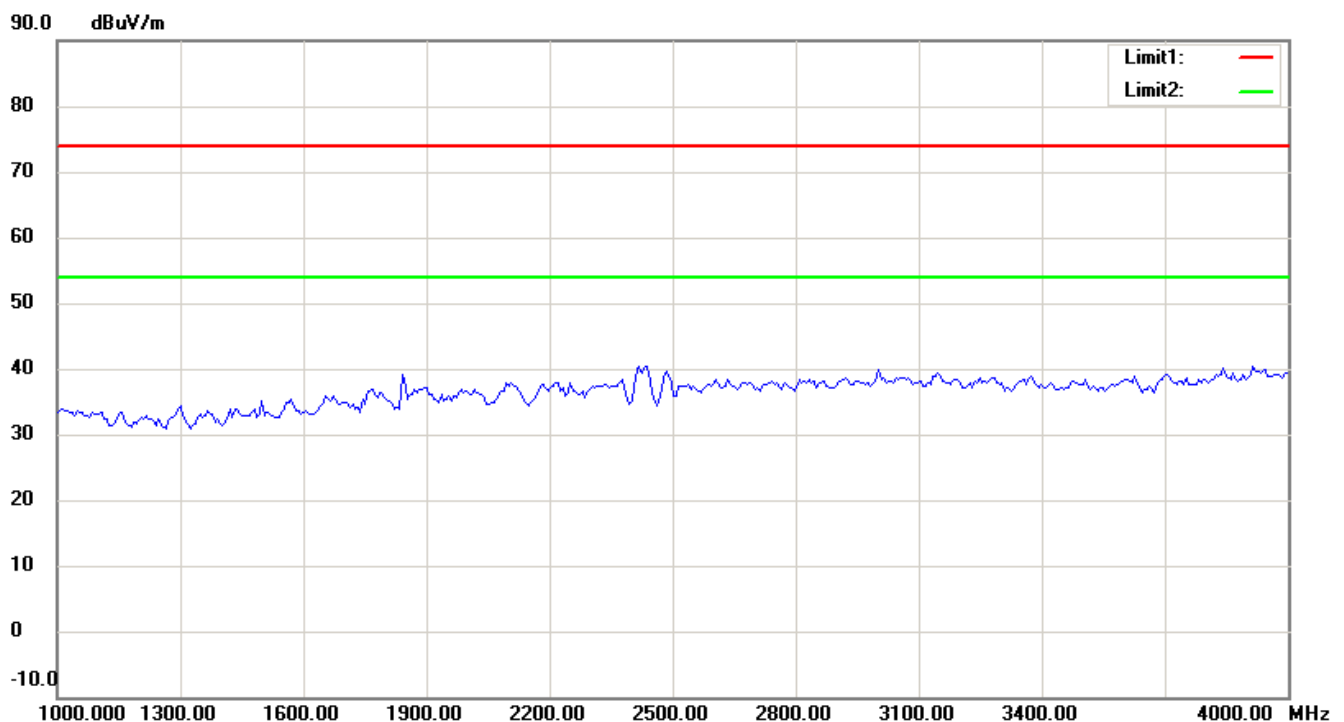
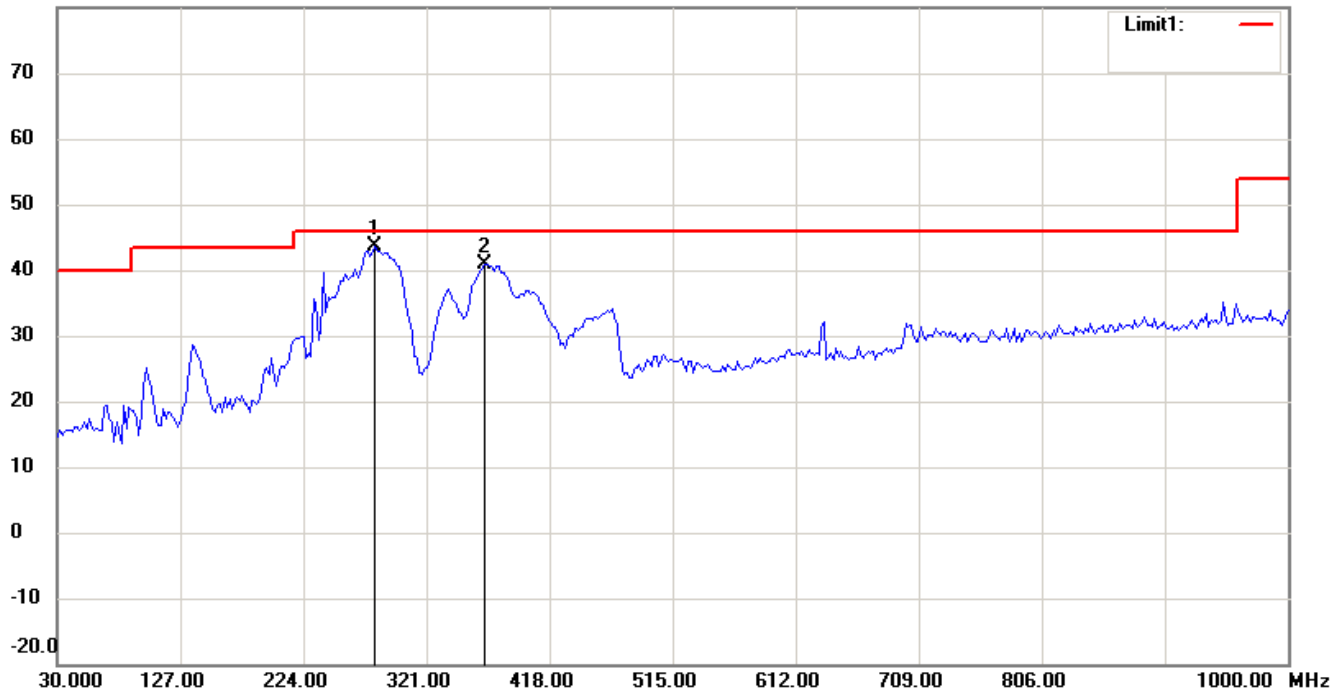
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11n 40MHz CH1

Antenna Polarization H

80.0 dBuV/m

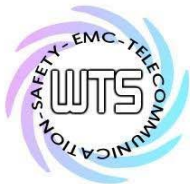


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

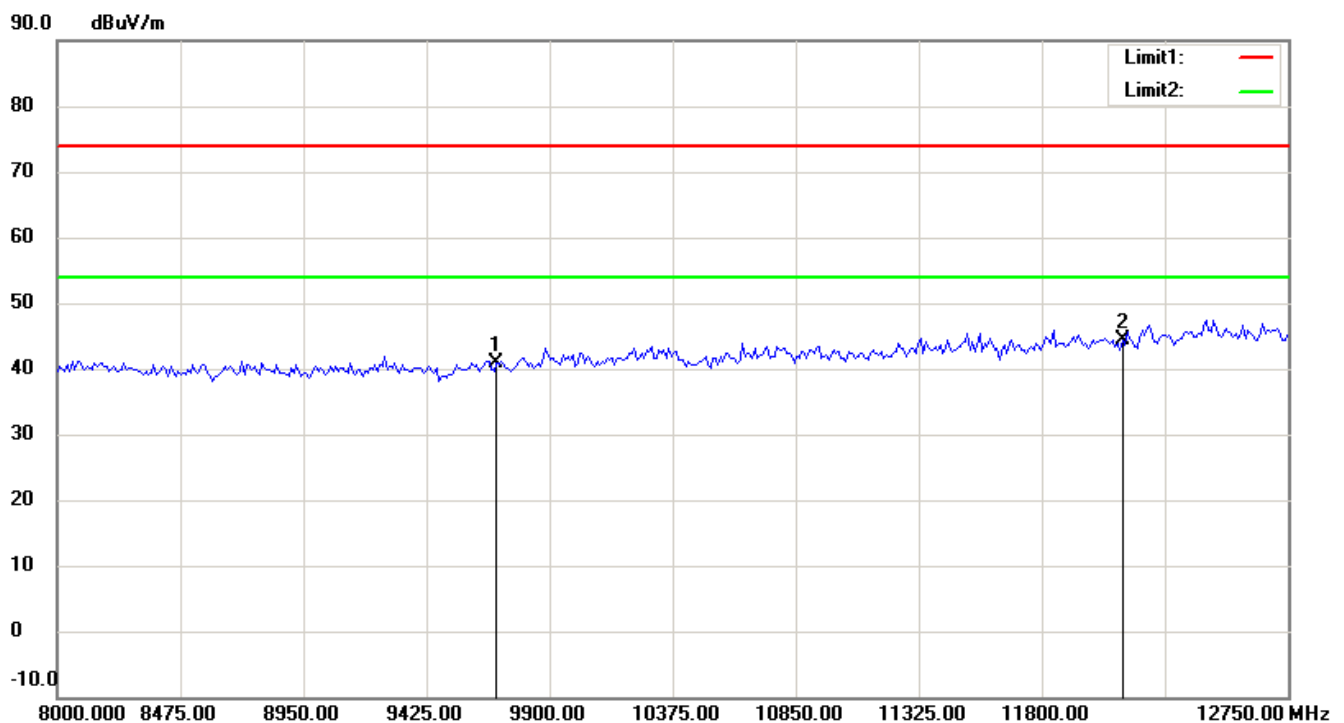
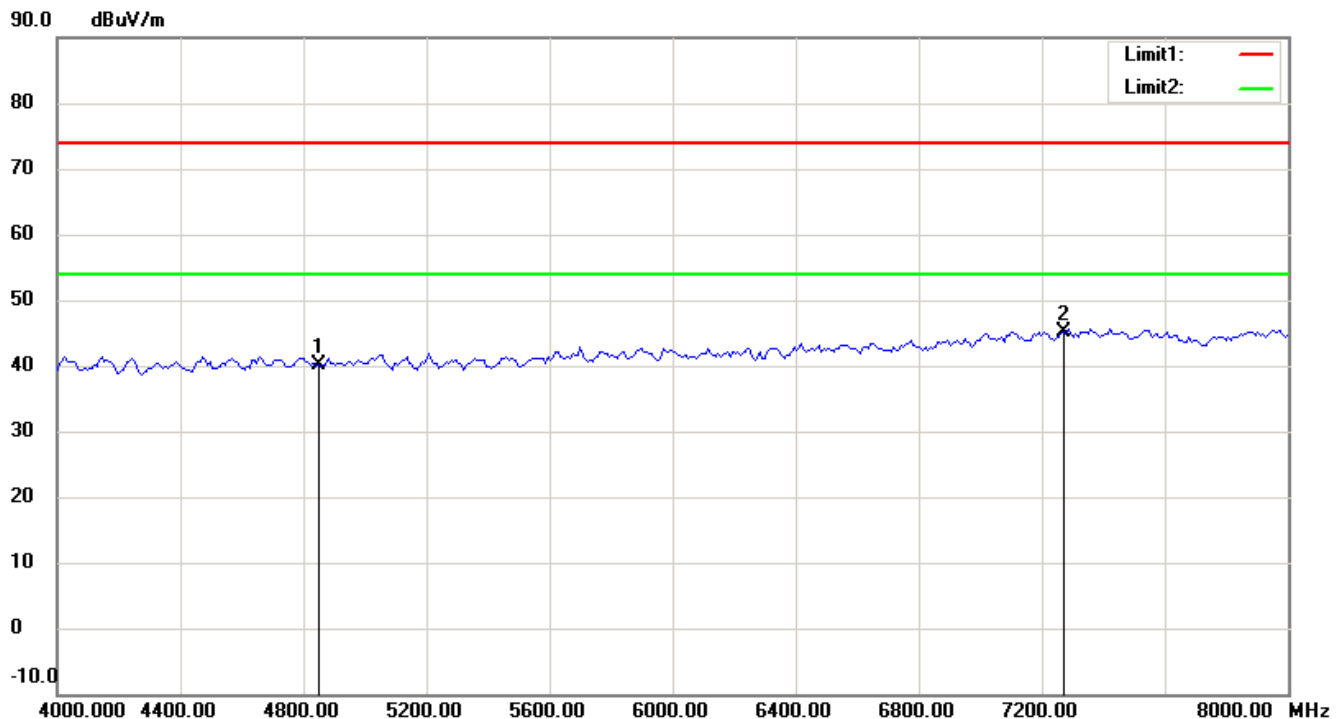
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

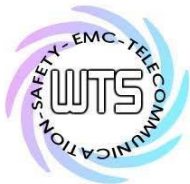
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

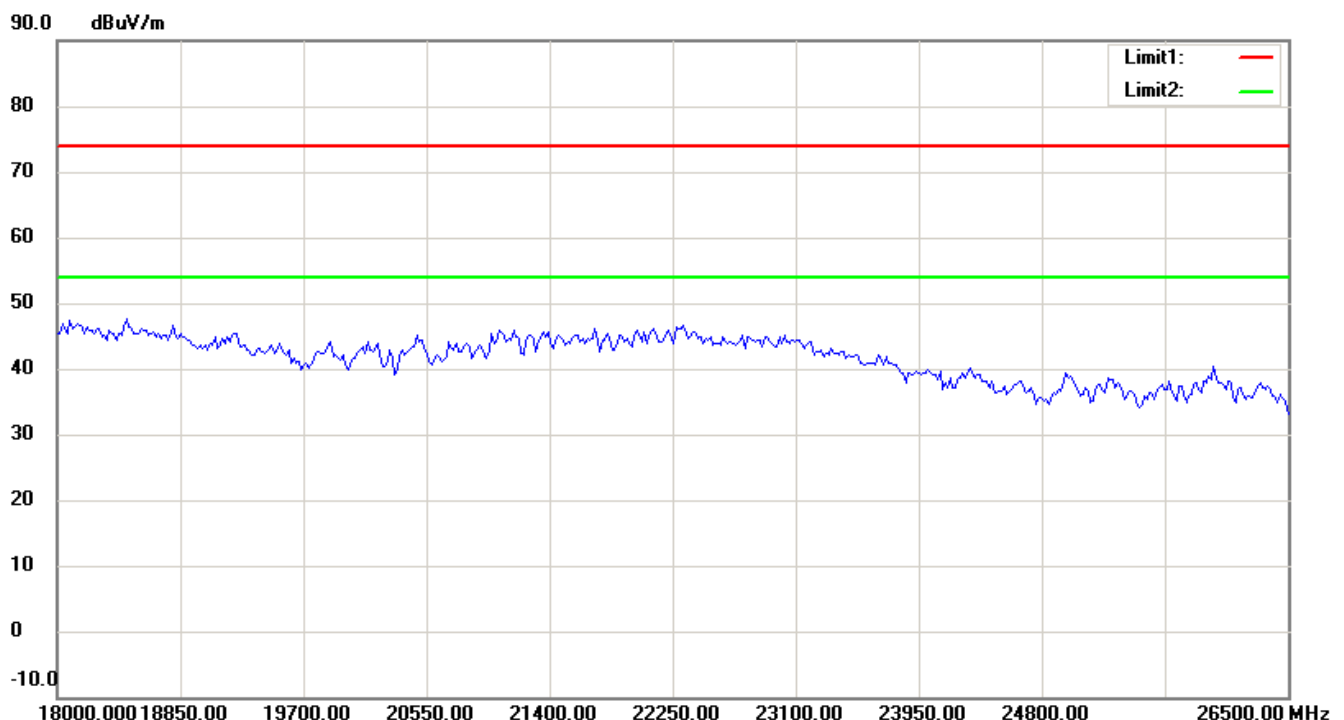
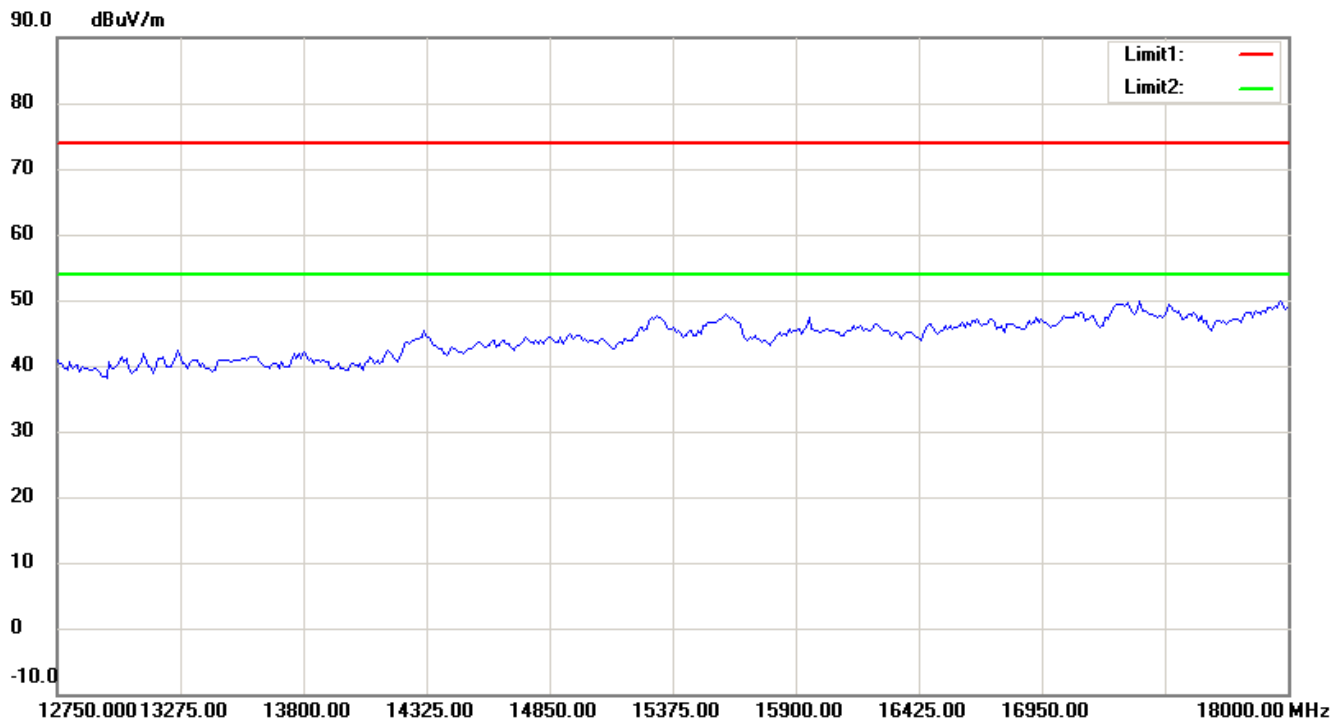
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

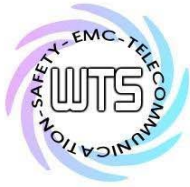
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

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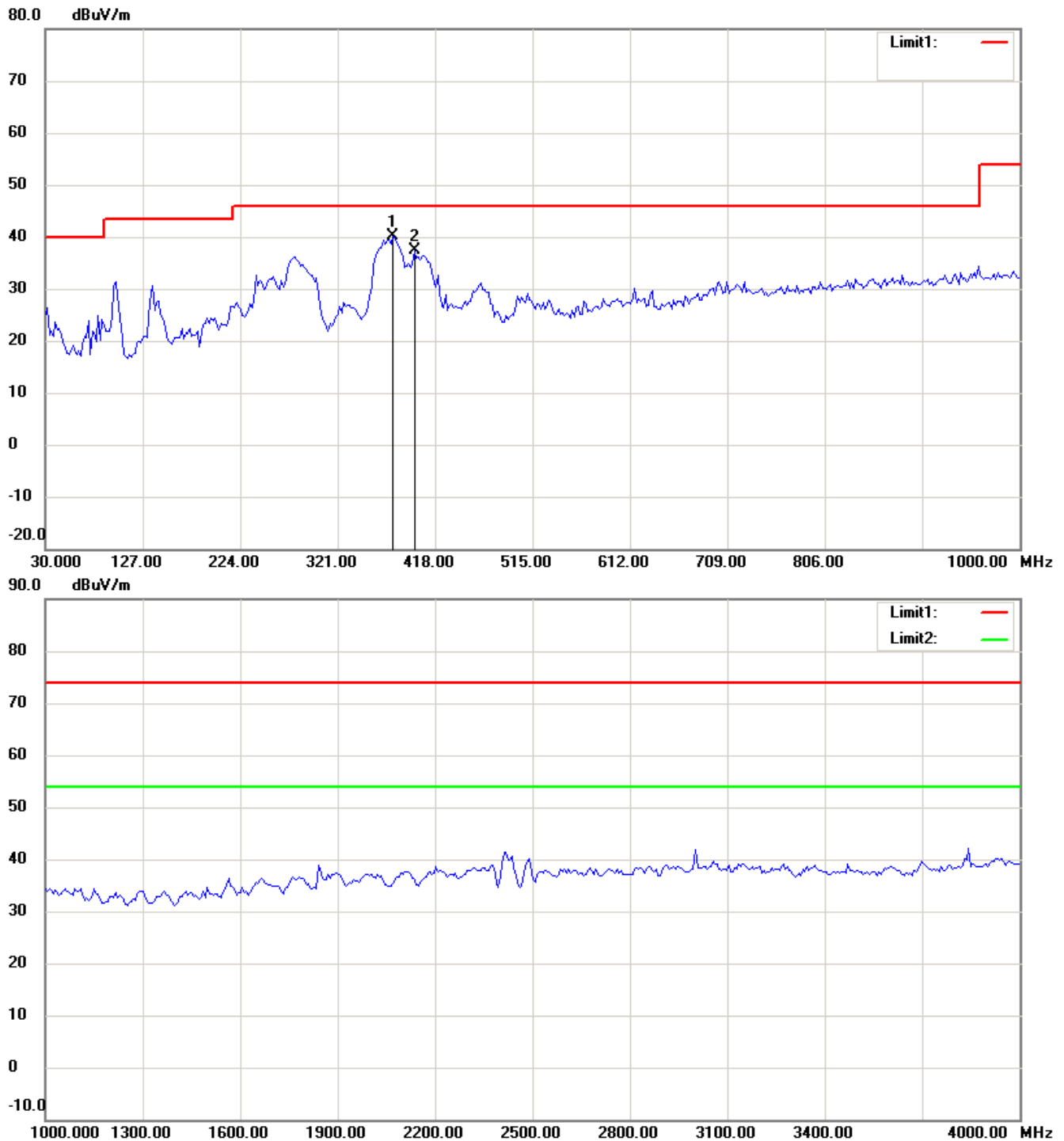


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

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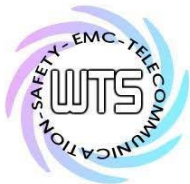
Antenna Polarization V



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

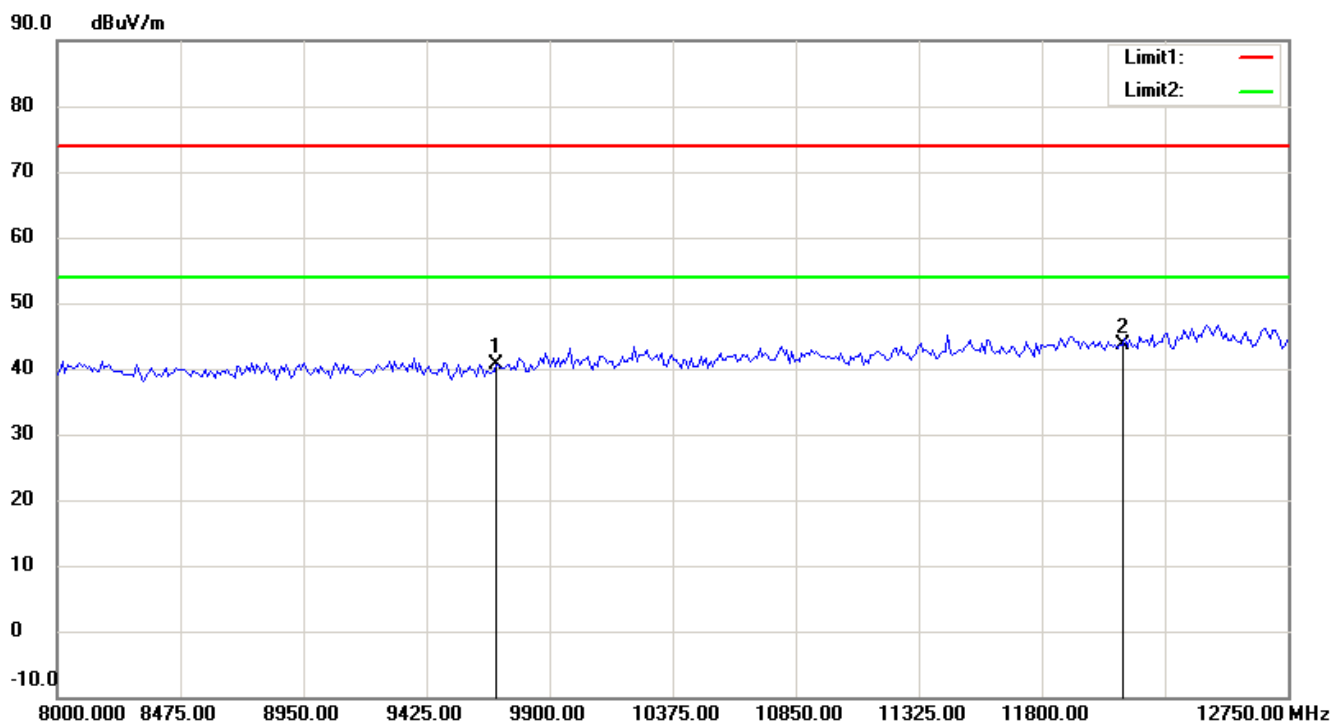
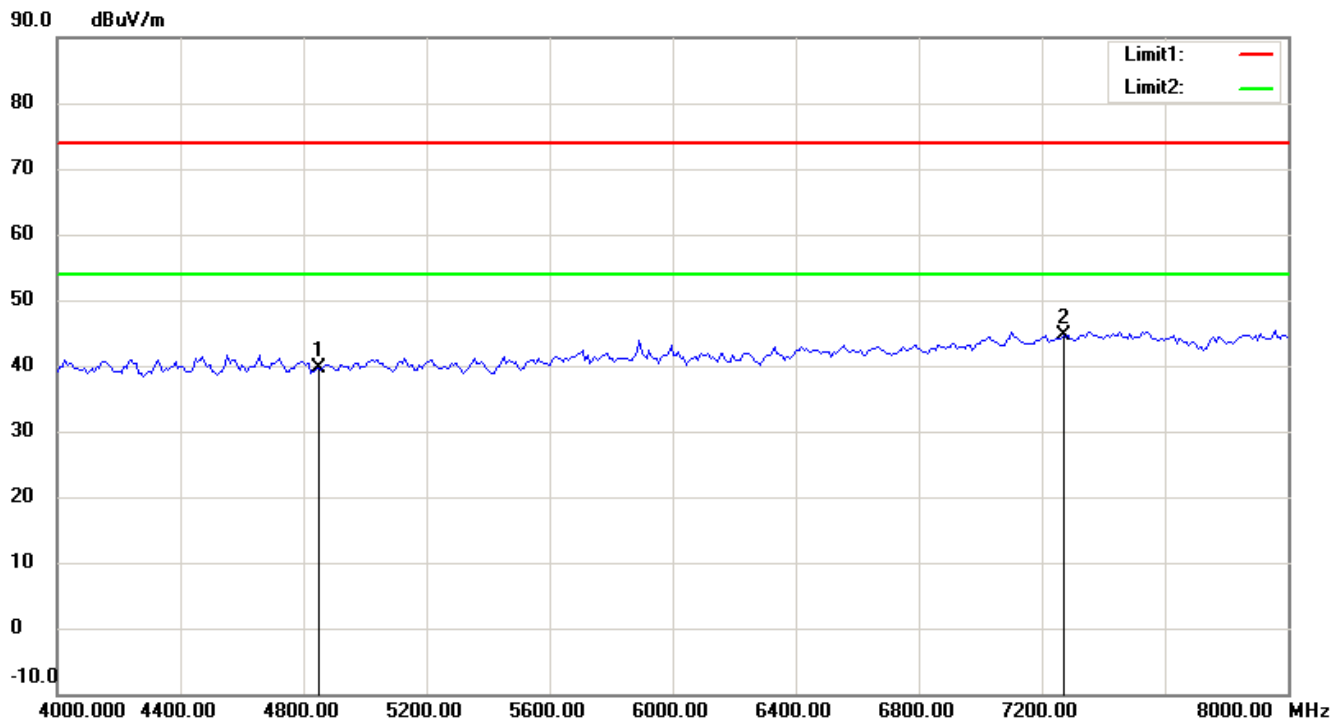
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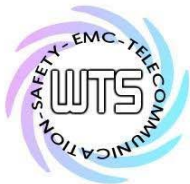
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

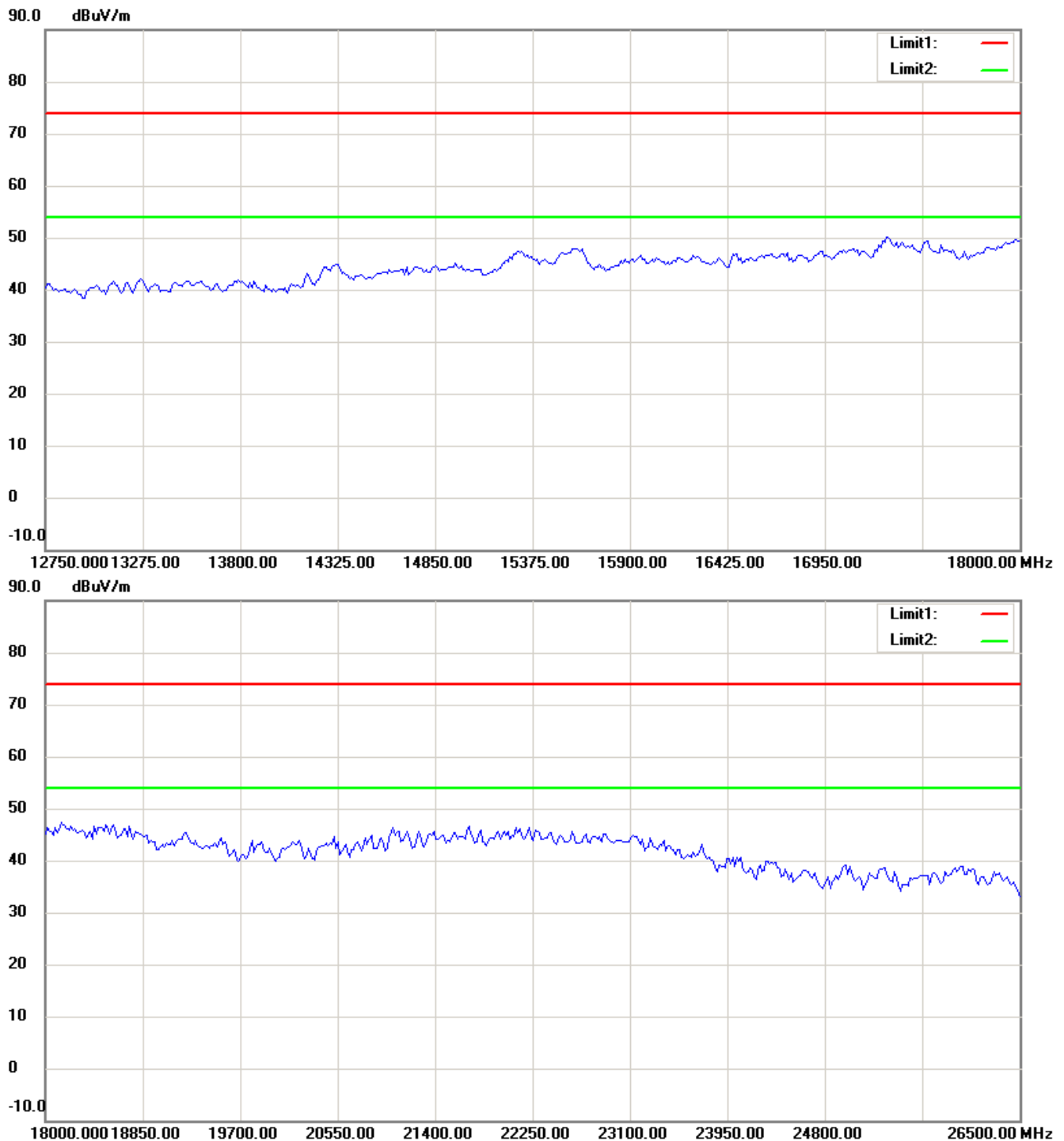
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Worldwide Testing Services(Taiwan) Co., Ltd.

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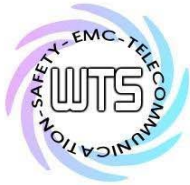
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
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Worldwide Testing Services(Taiwan) Co., Ltd.

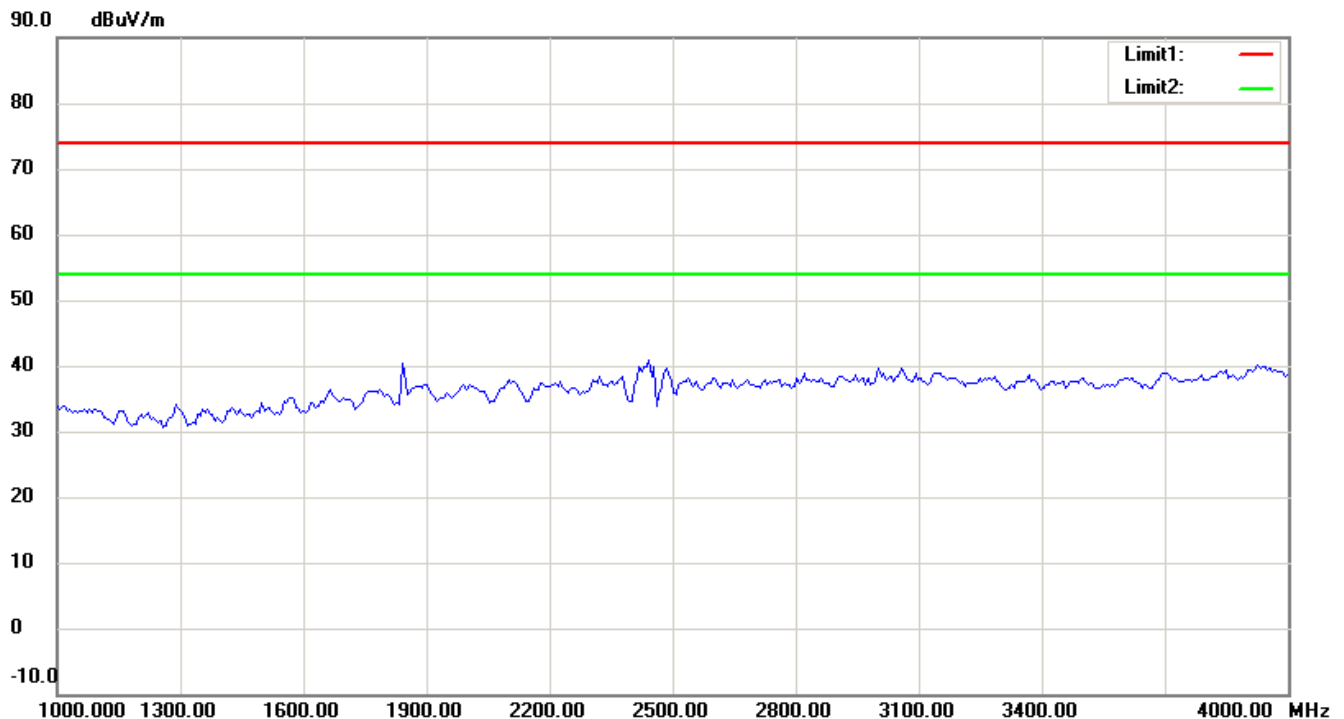
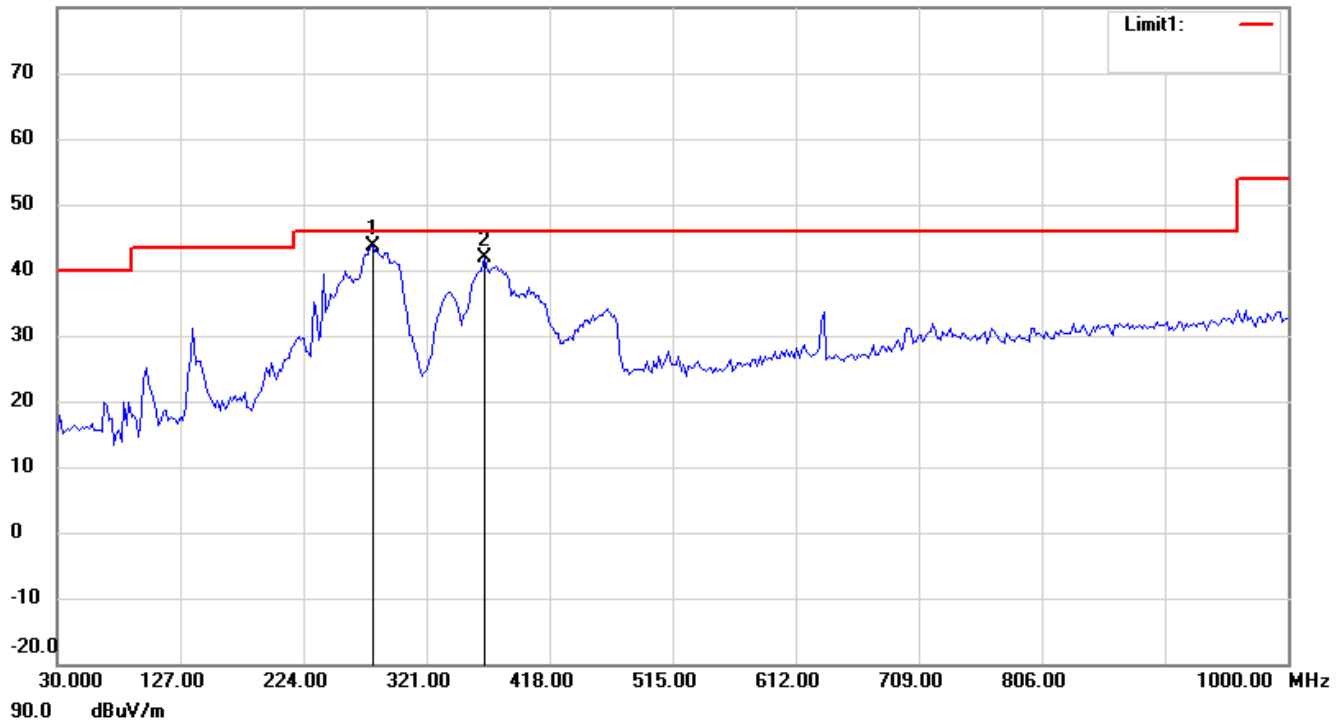
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FCC ID: Q7A65000W0

802.11n 40MHz CH4

Antenna Polarization H

80.0 dBuV/m

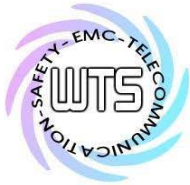


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

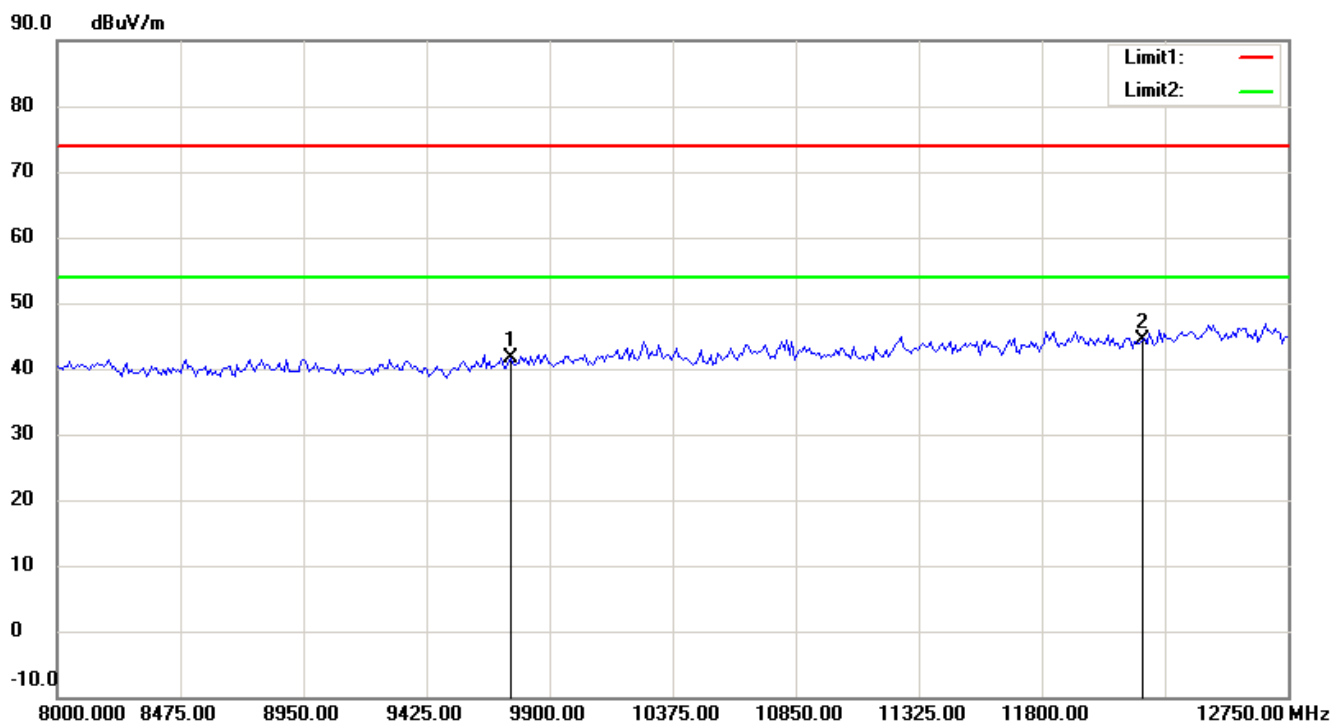
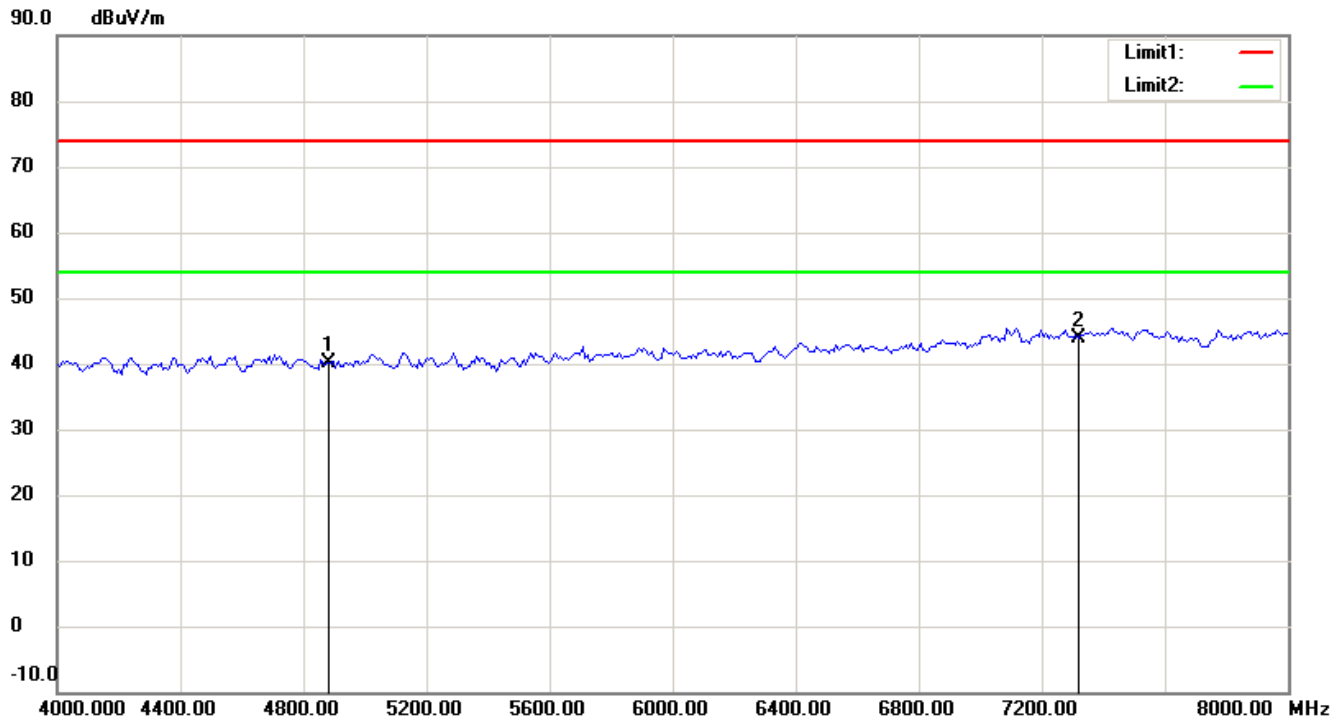
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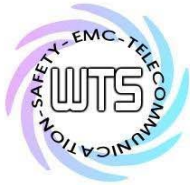
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

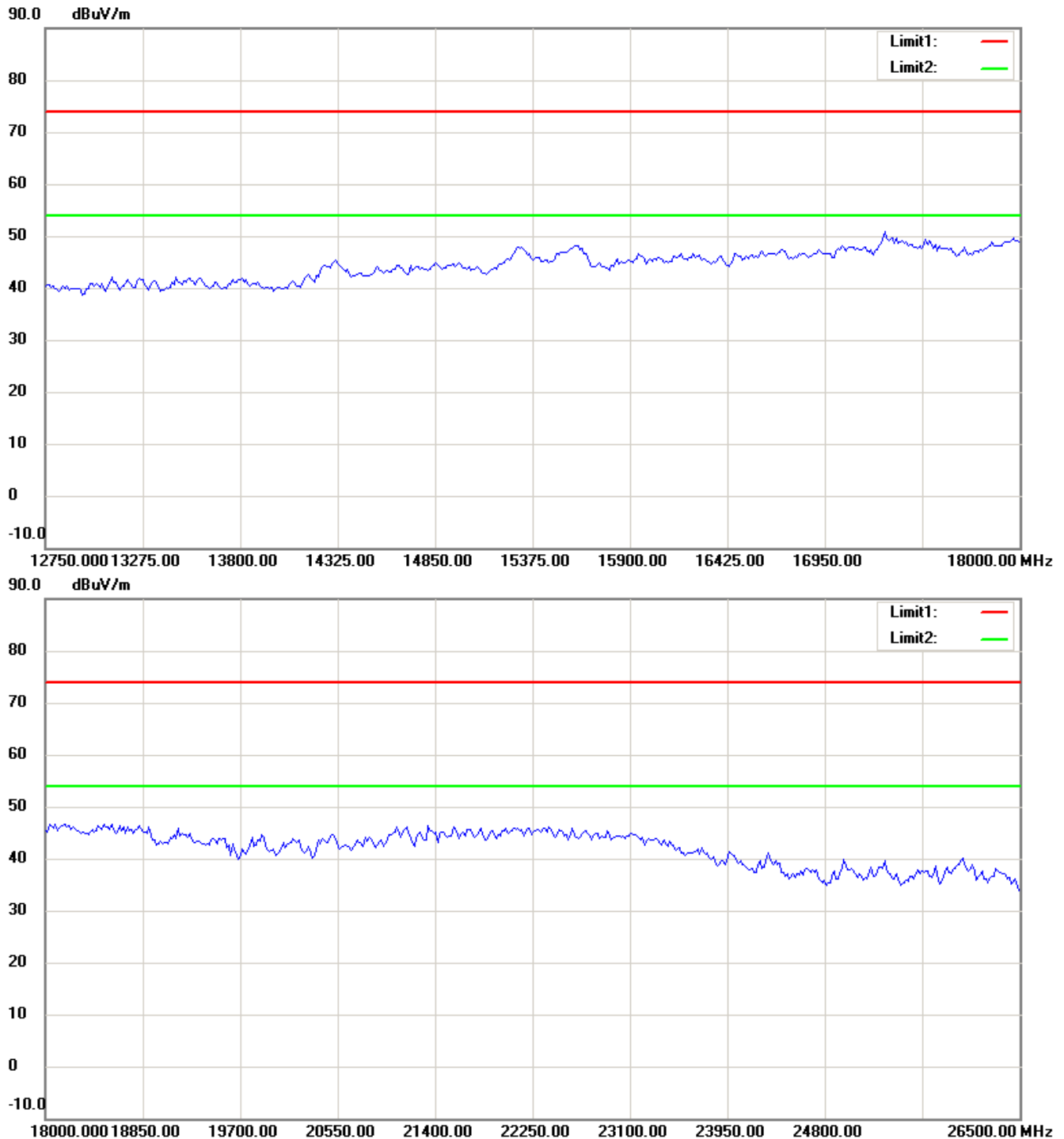
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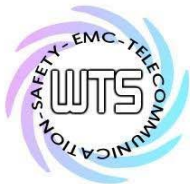
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

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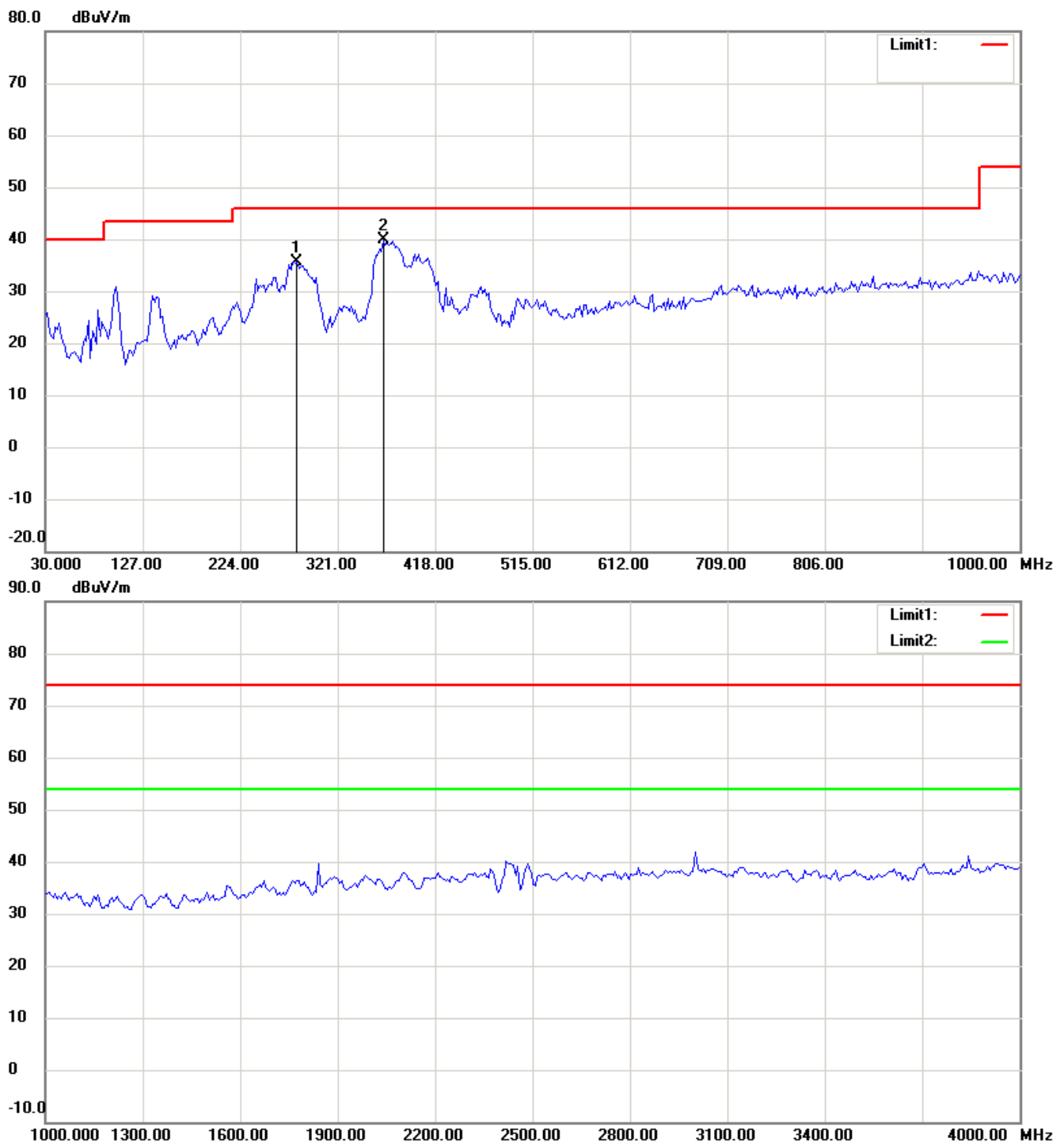


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

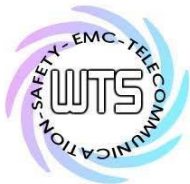


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

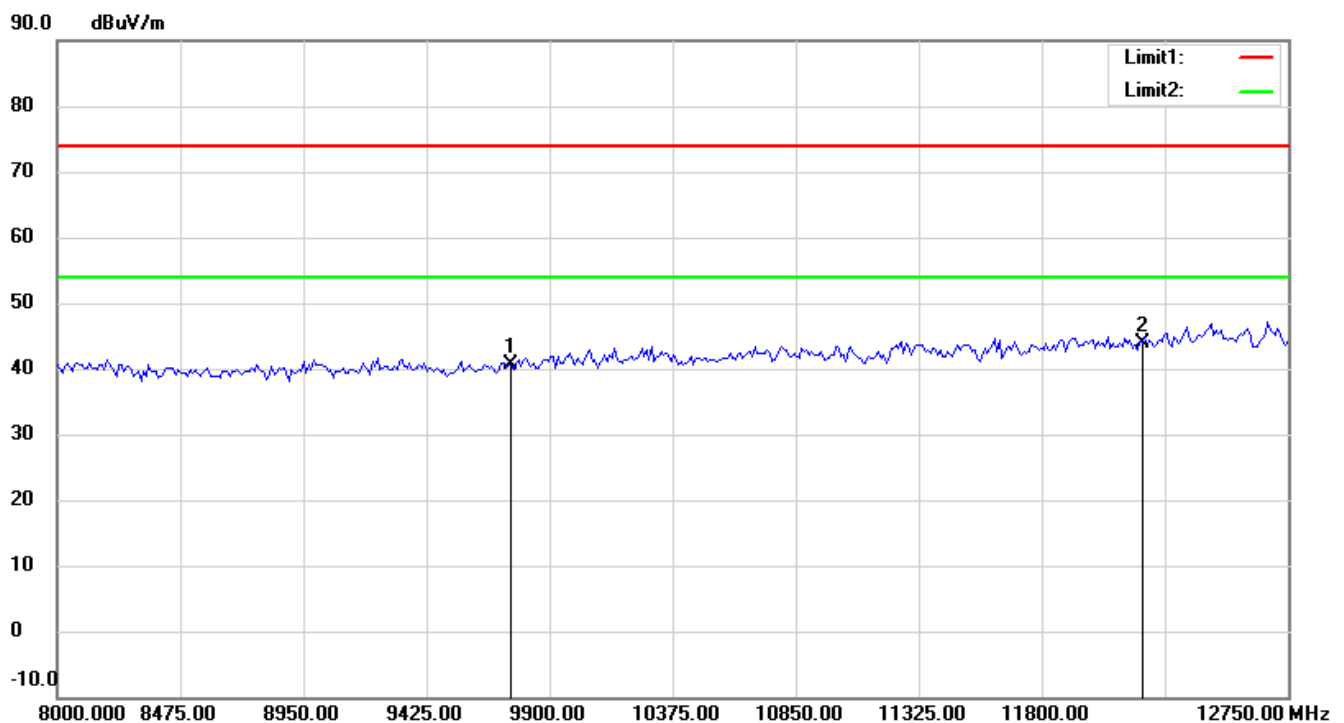
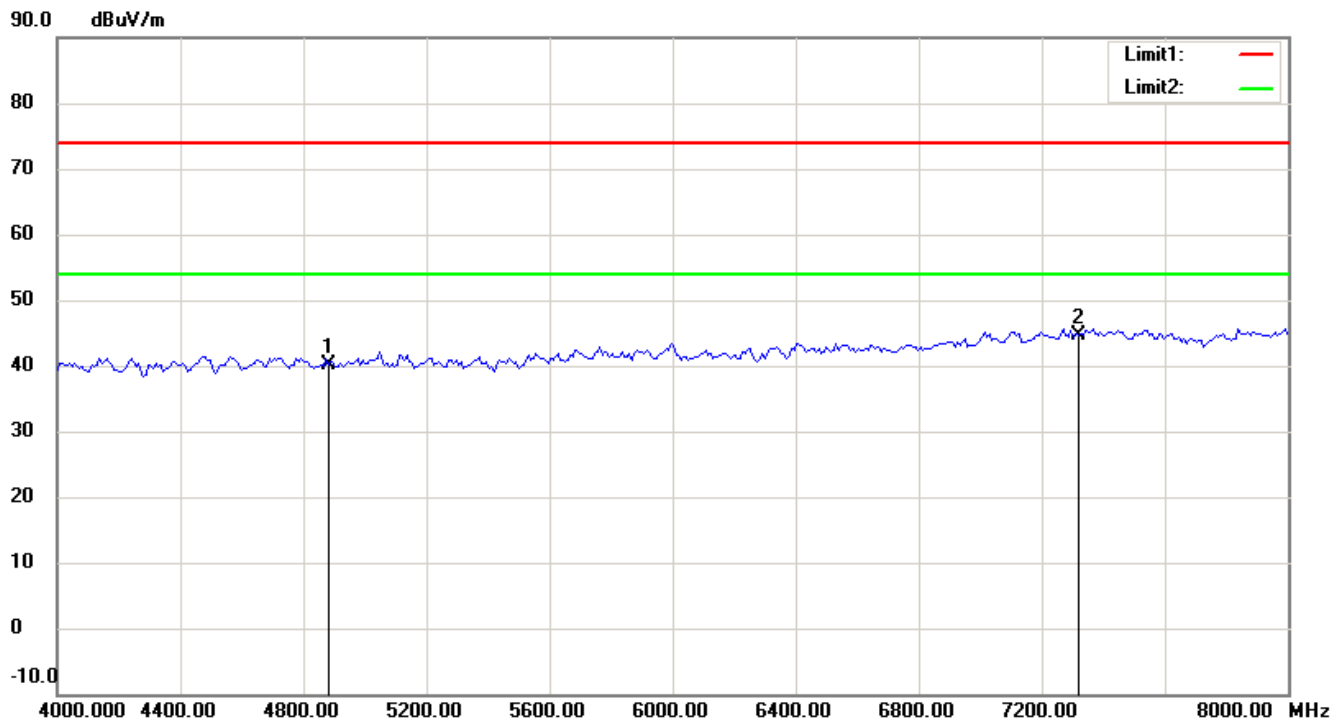
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Registration number: W6M21209-12734-C-1

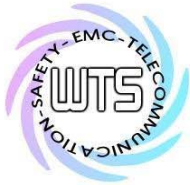
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

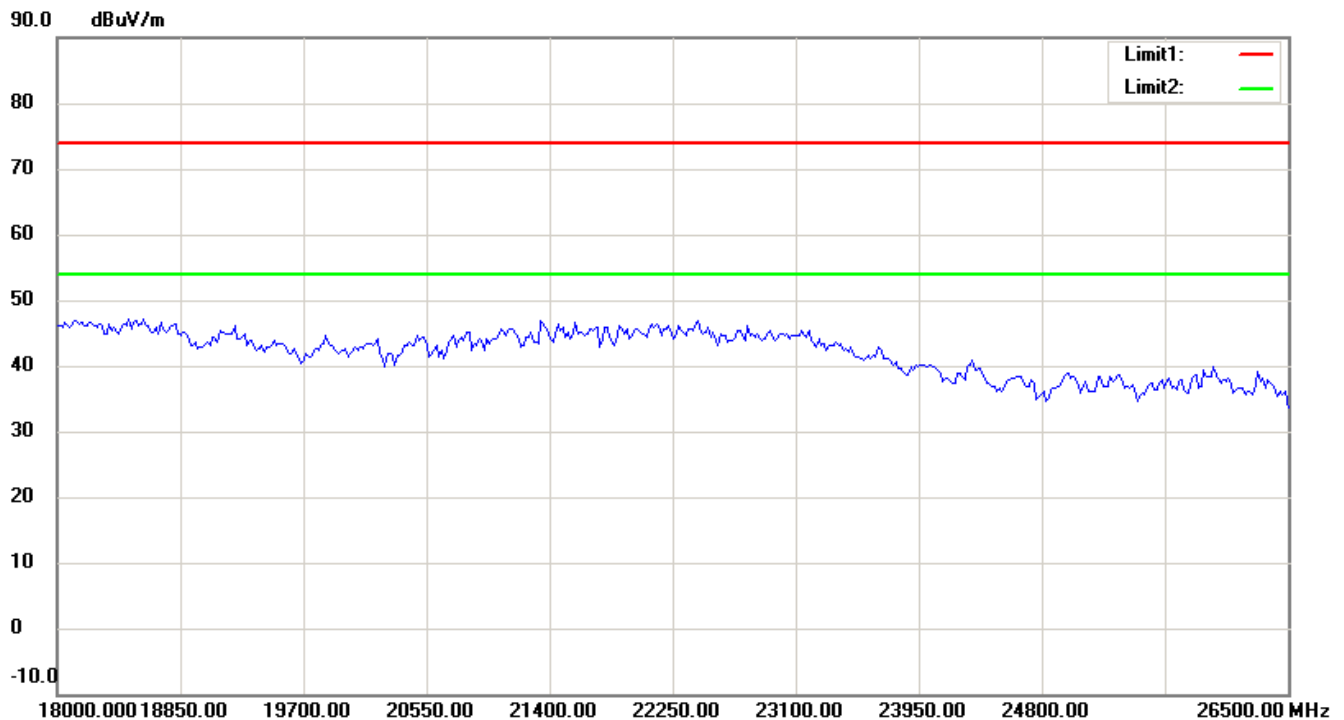
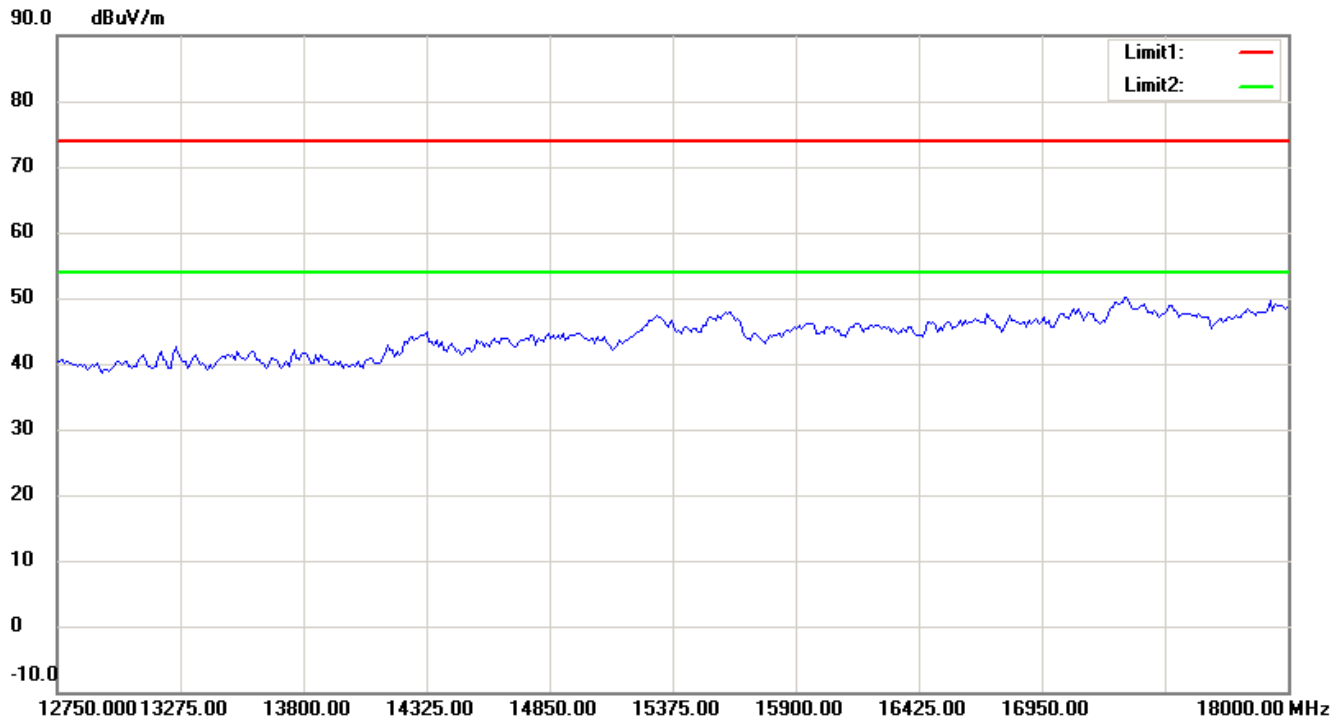
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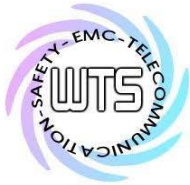
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Up Line: Peak Limit Line
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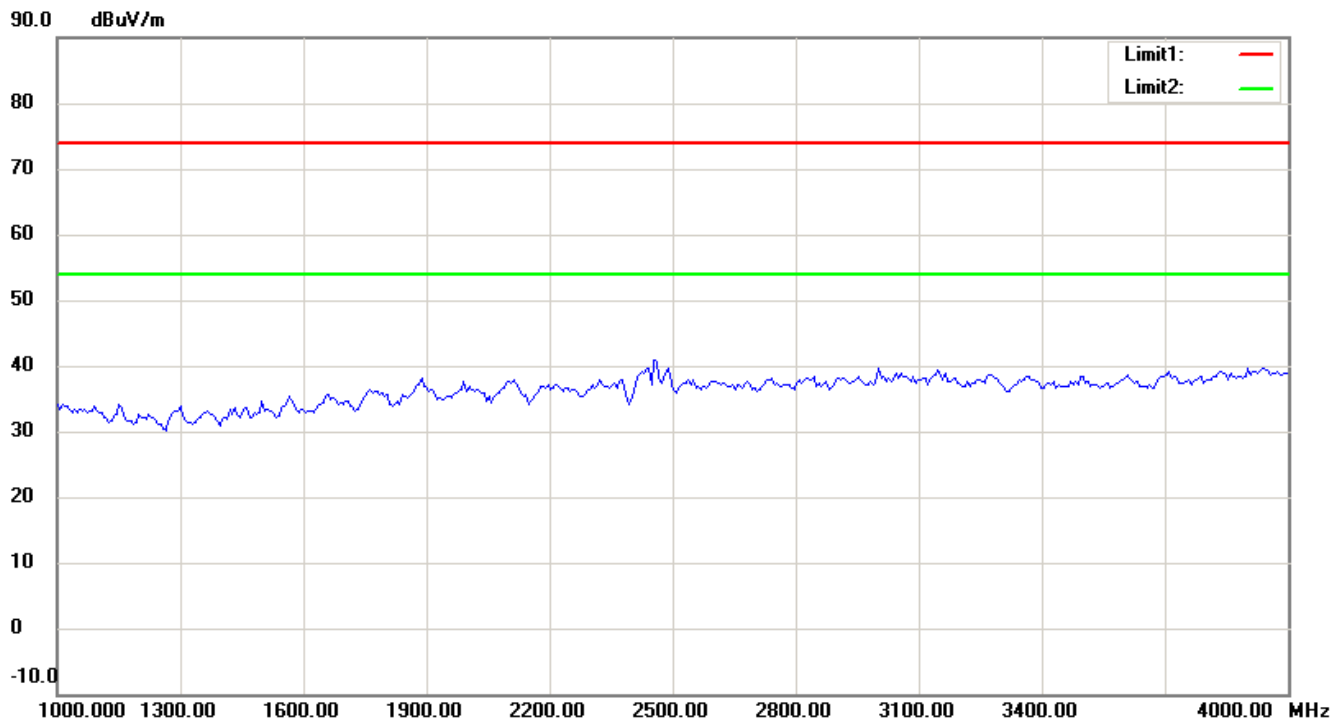
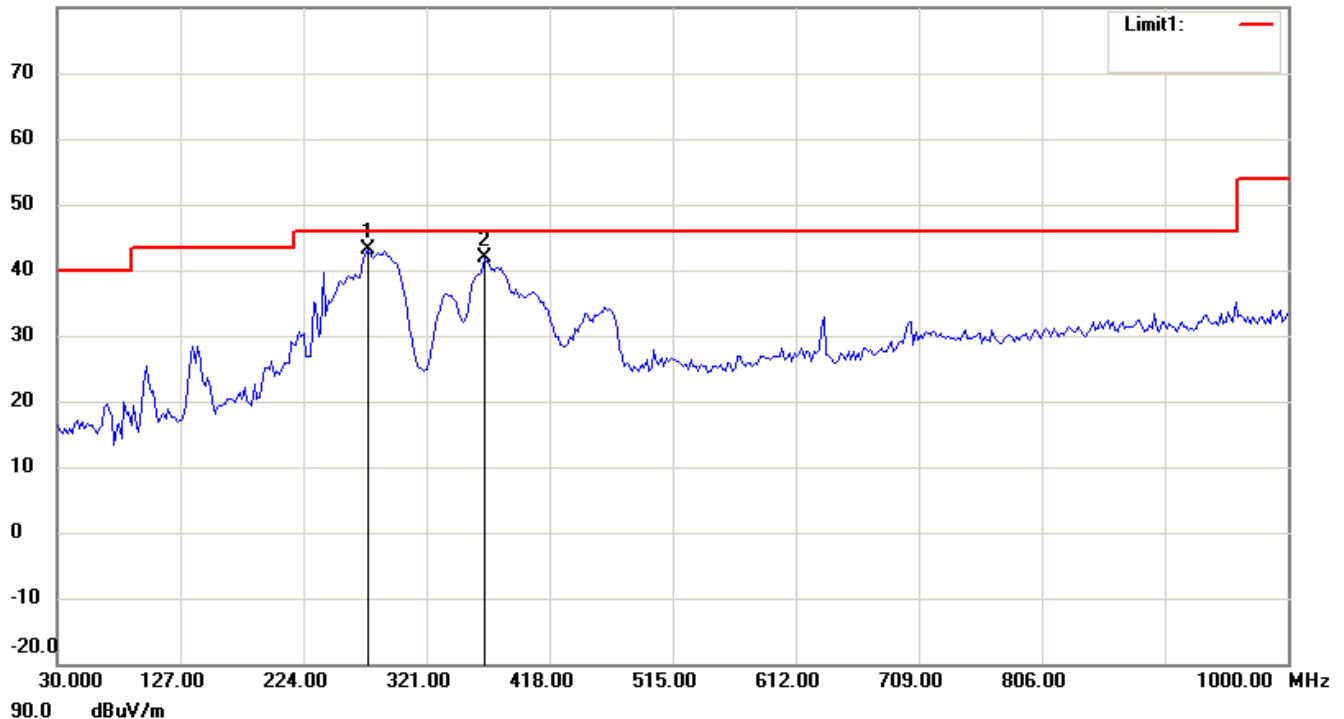
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

802.11n 40MHz CH7

Antenna Polarization H

80.0 dBuV/m

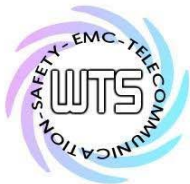


Up Line: Peak Limit Line

Down Line: Ave Limit Line

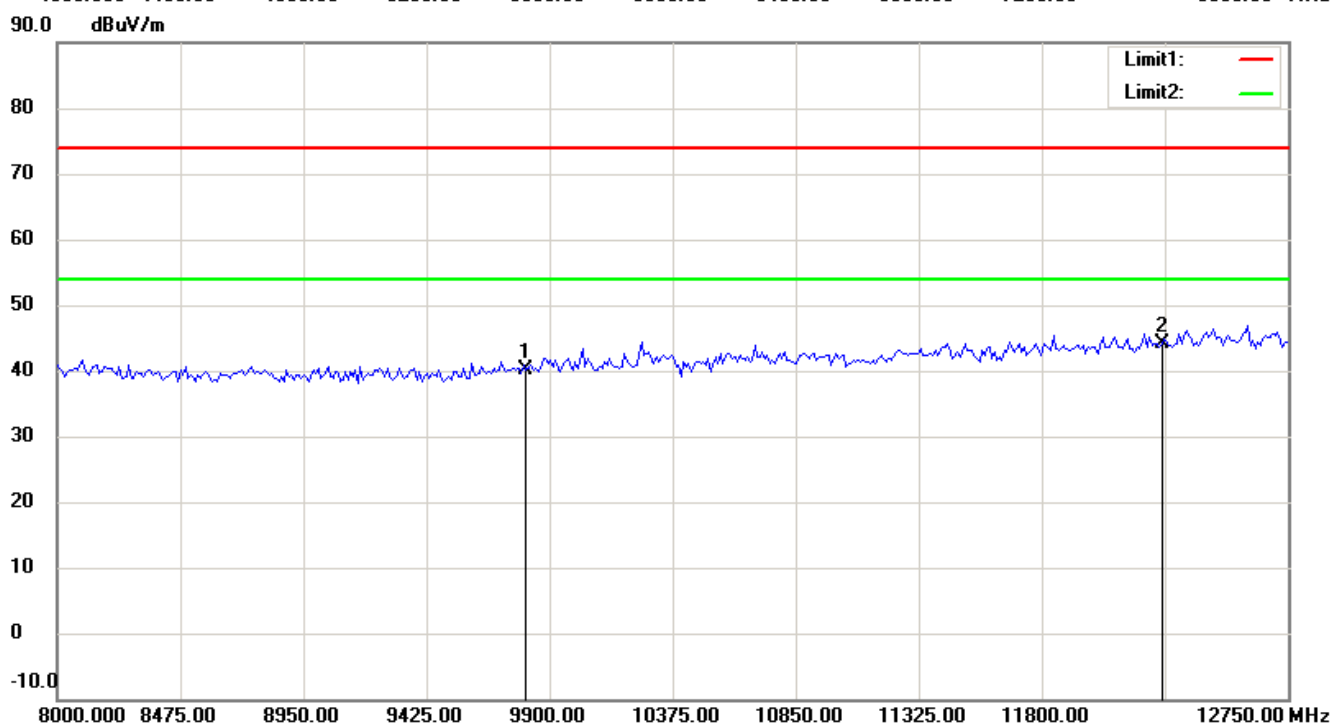
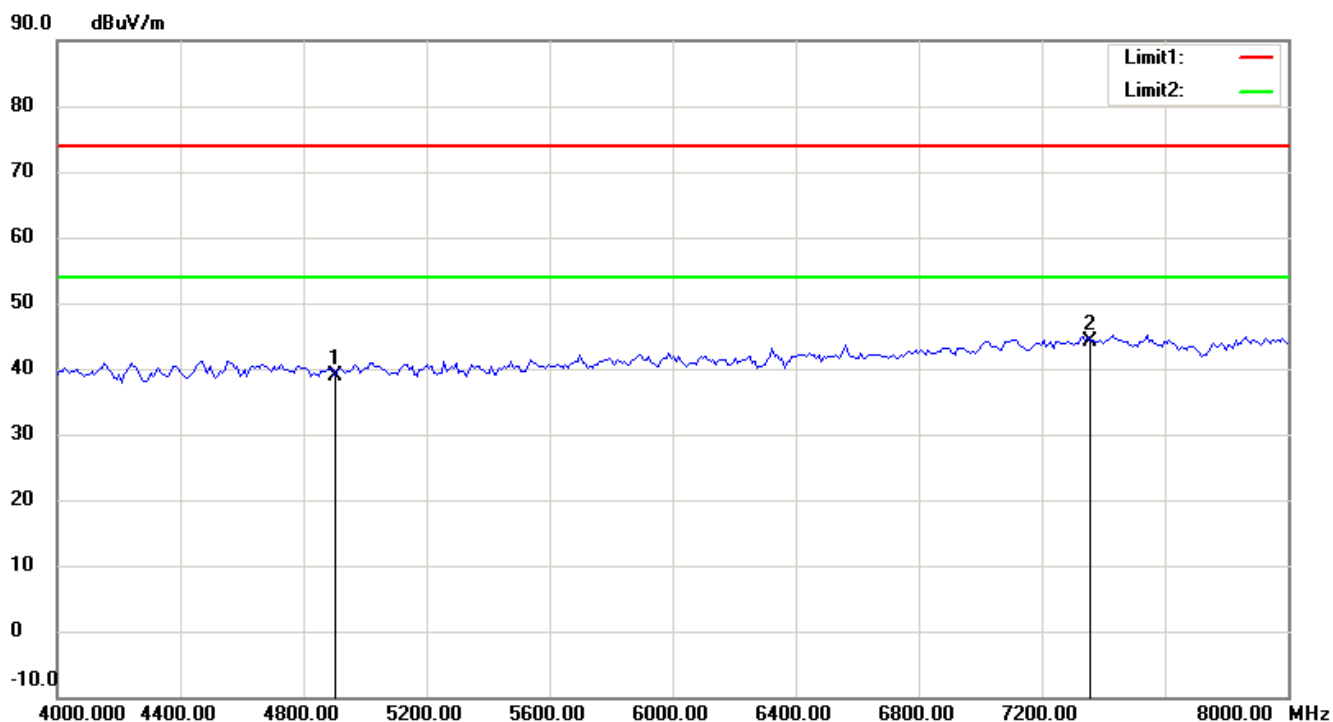
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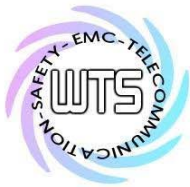
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

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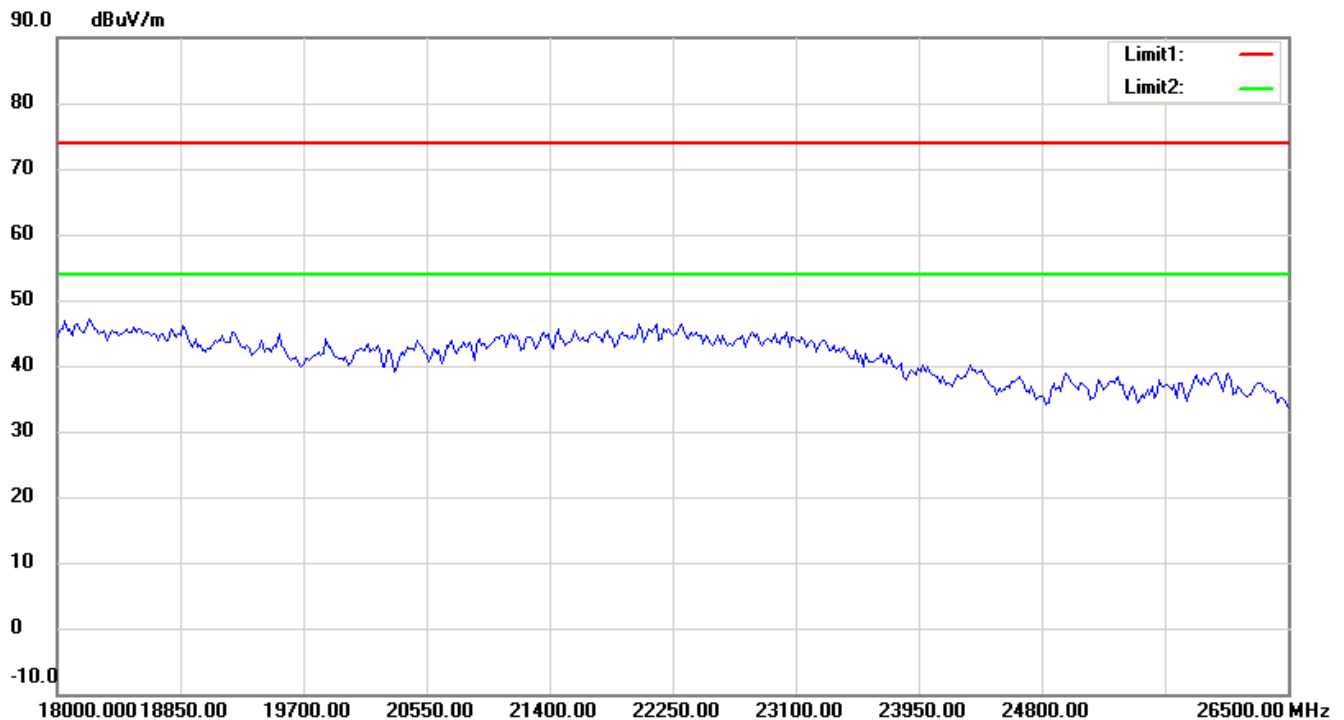
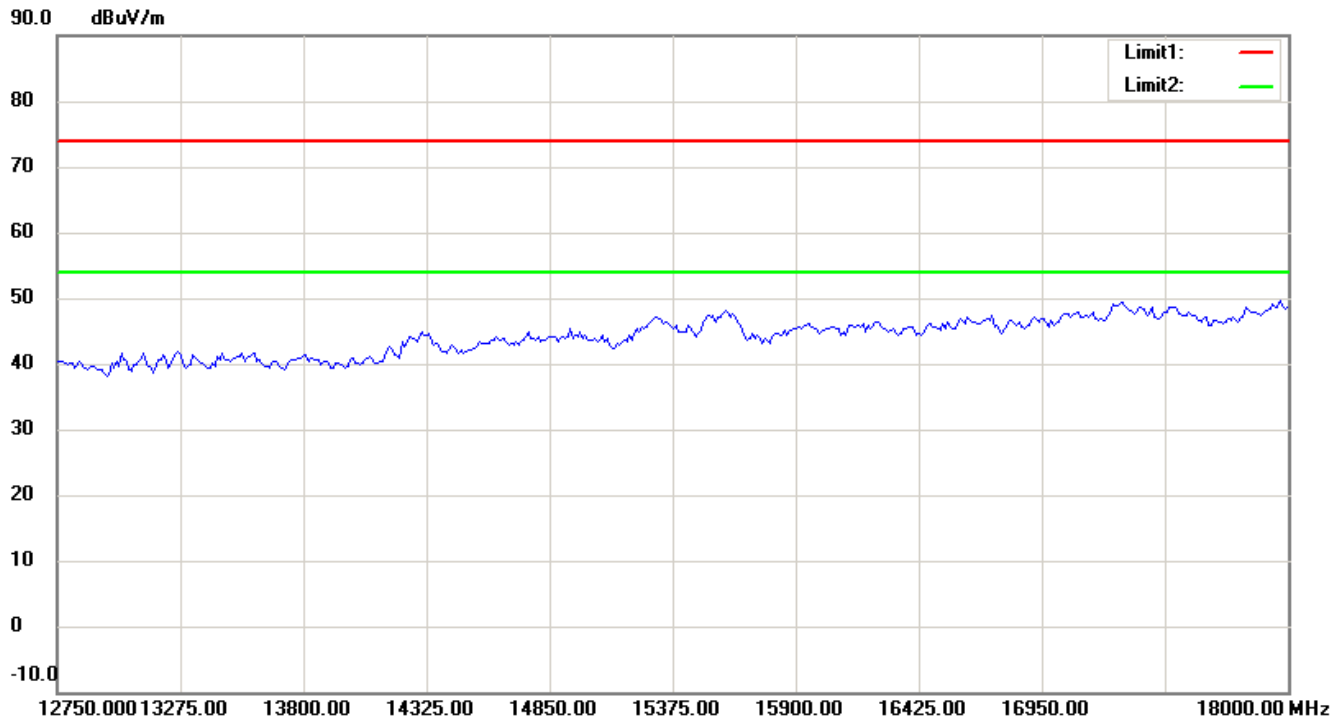
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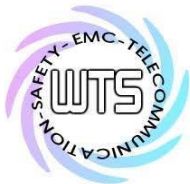
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Down Line: Ave Limit Line

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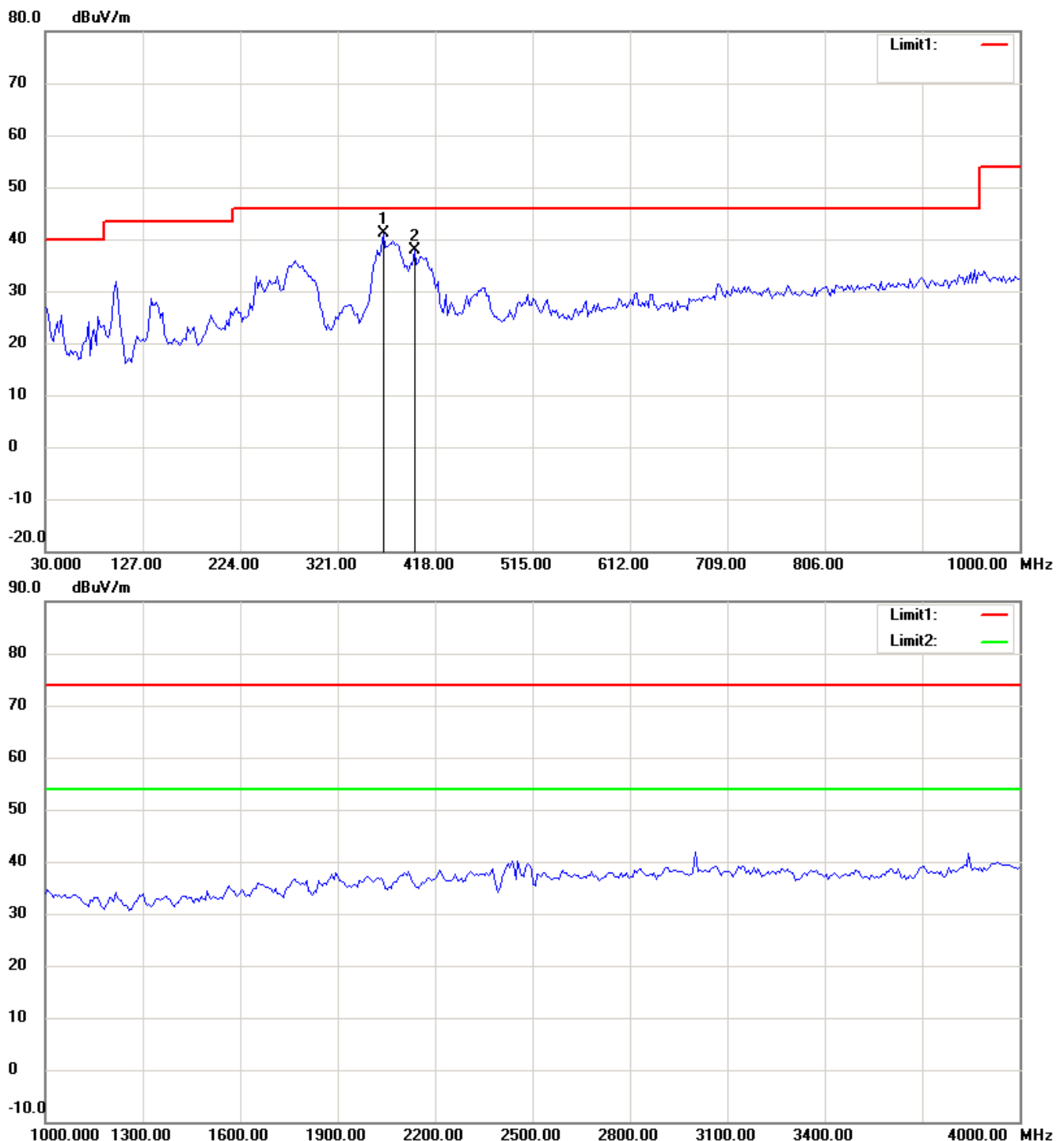


Worldwide Testing Services(Taiwan) Co., Ltd.

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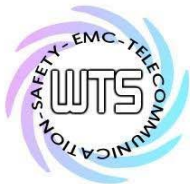
Antenna Polarization V



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

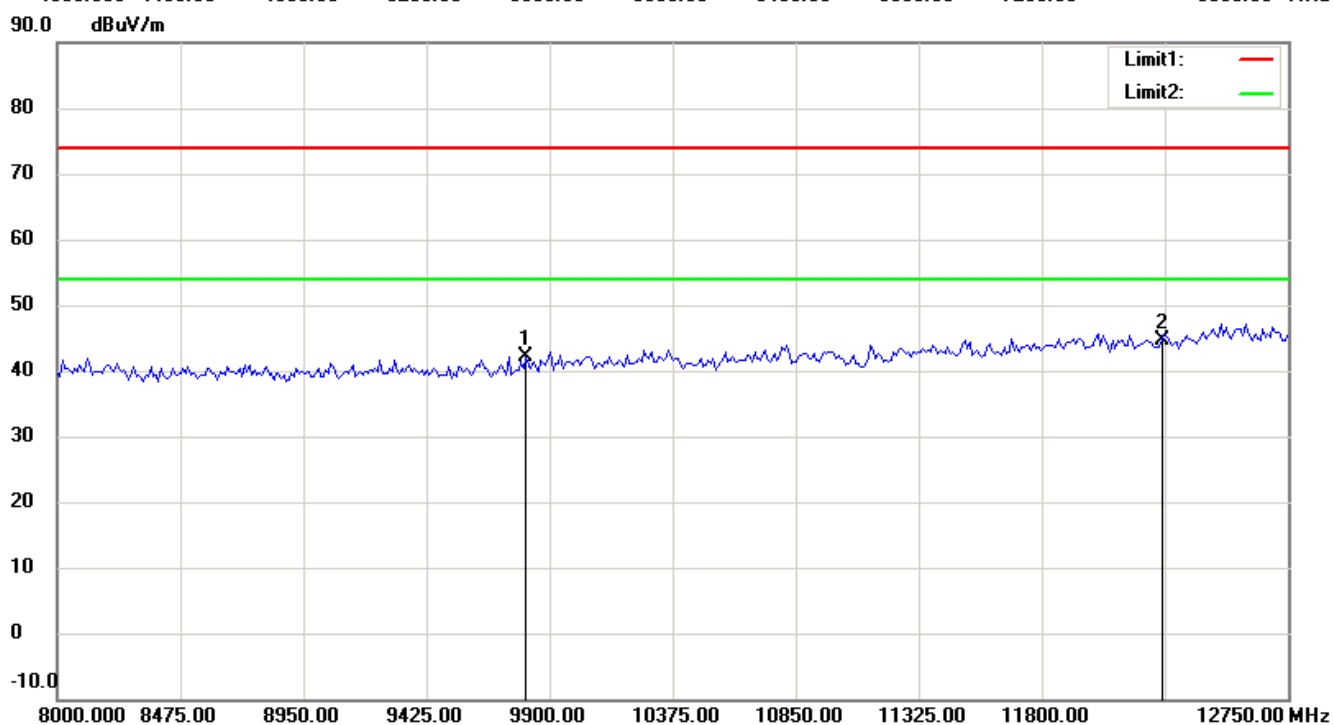
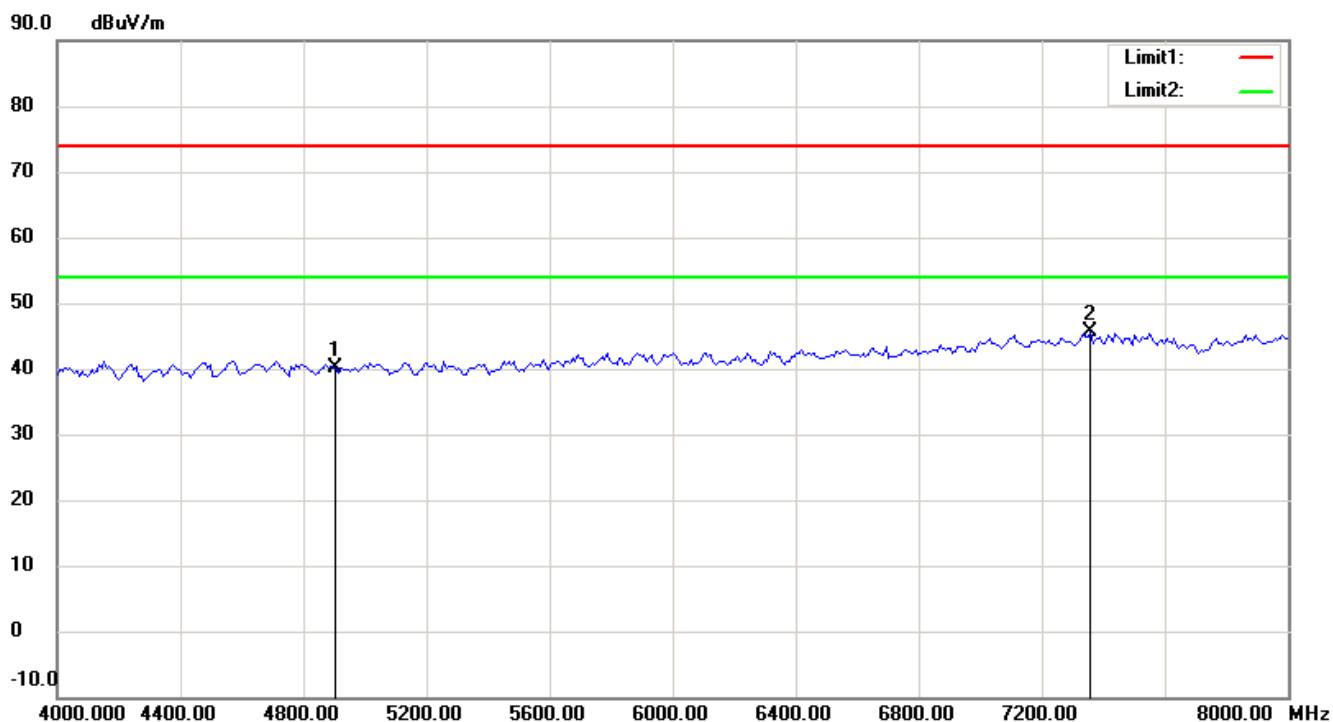
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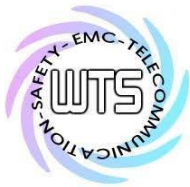
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

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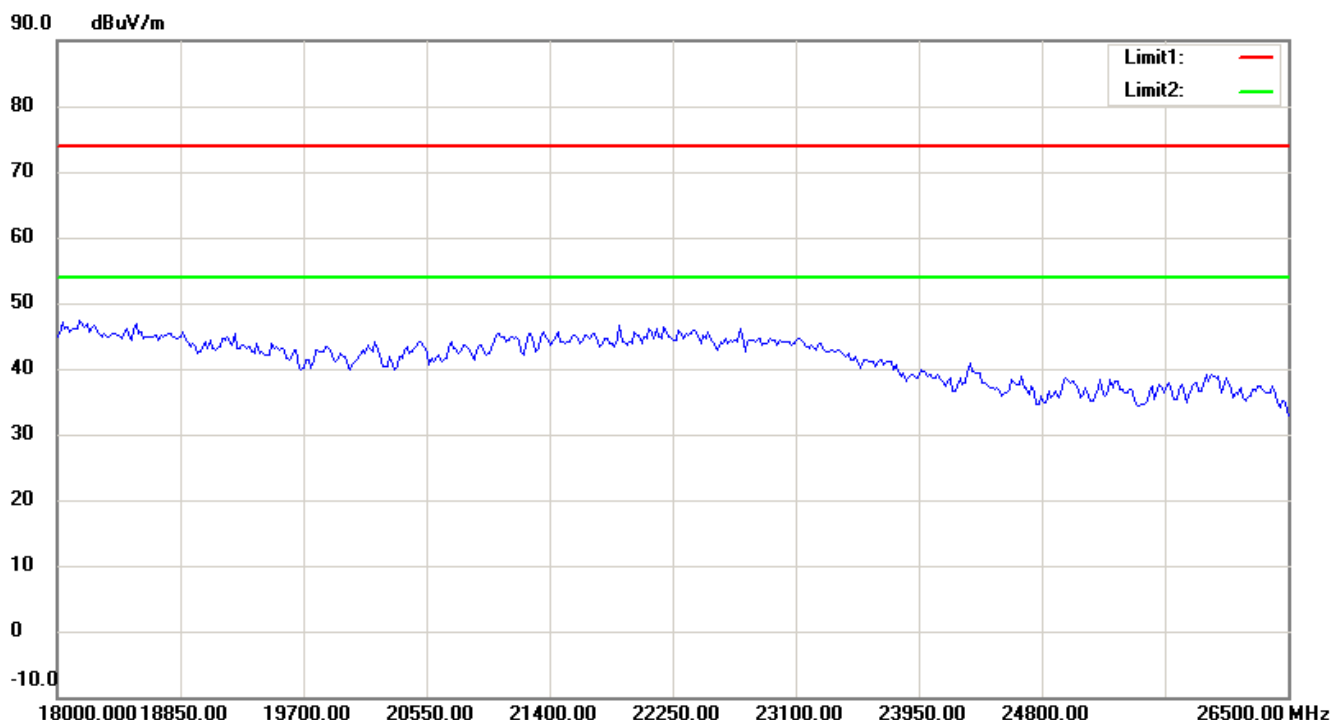
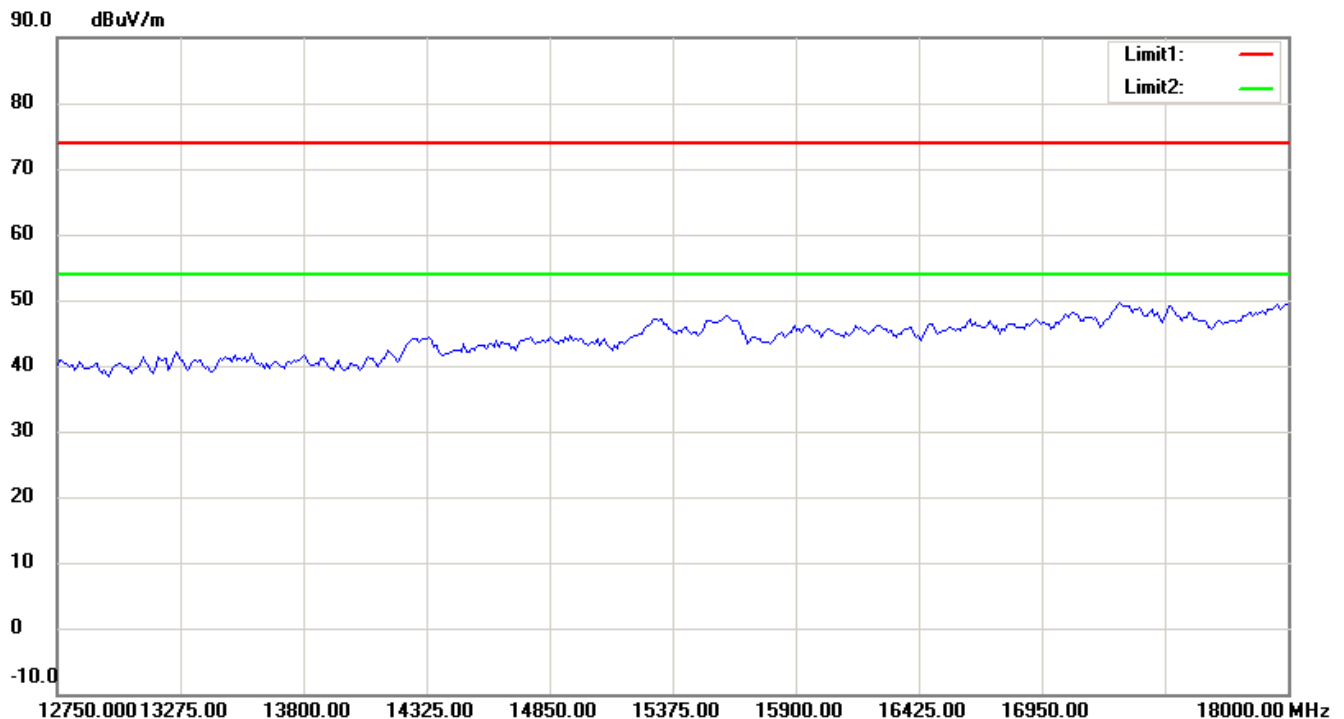
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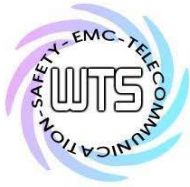
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Worldwide Testing Services(Taiwan) Co., Ltd.

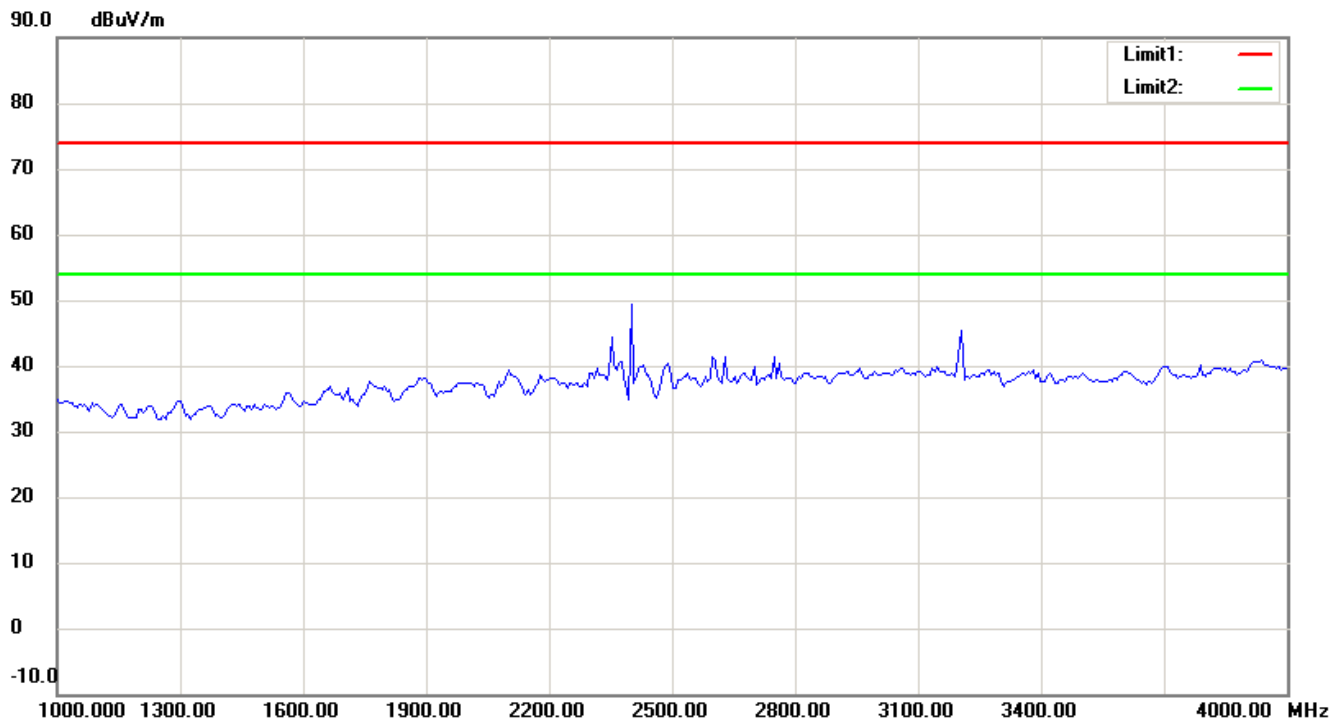
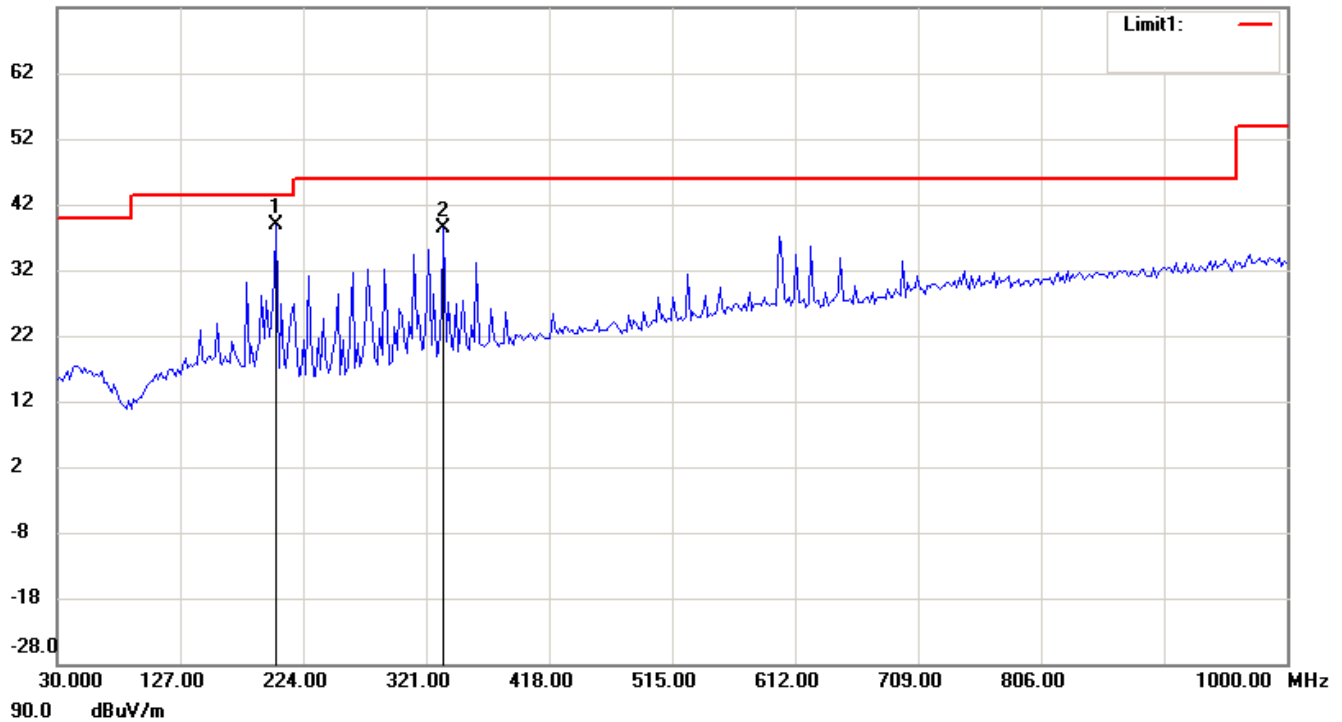
Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

ZIGBEE_2405MHz CH11

Antenna Polarization H

72.0 dBuV/m

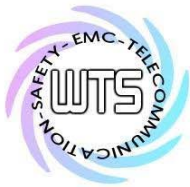


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

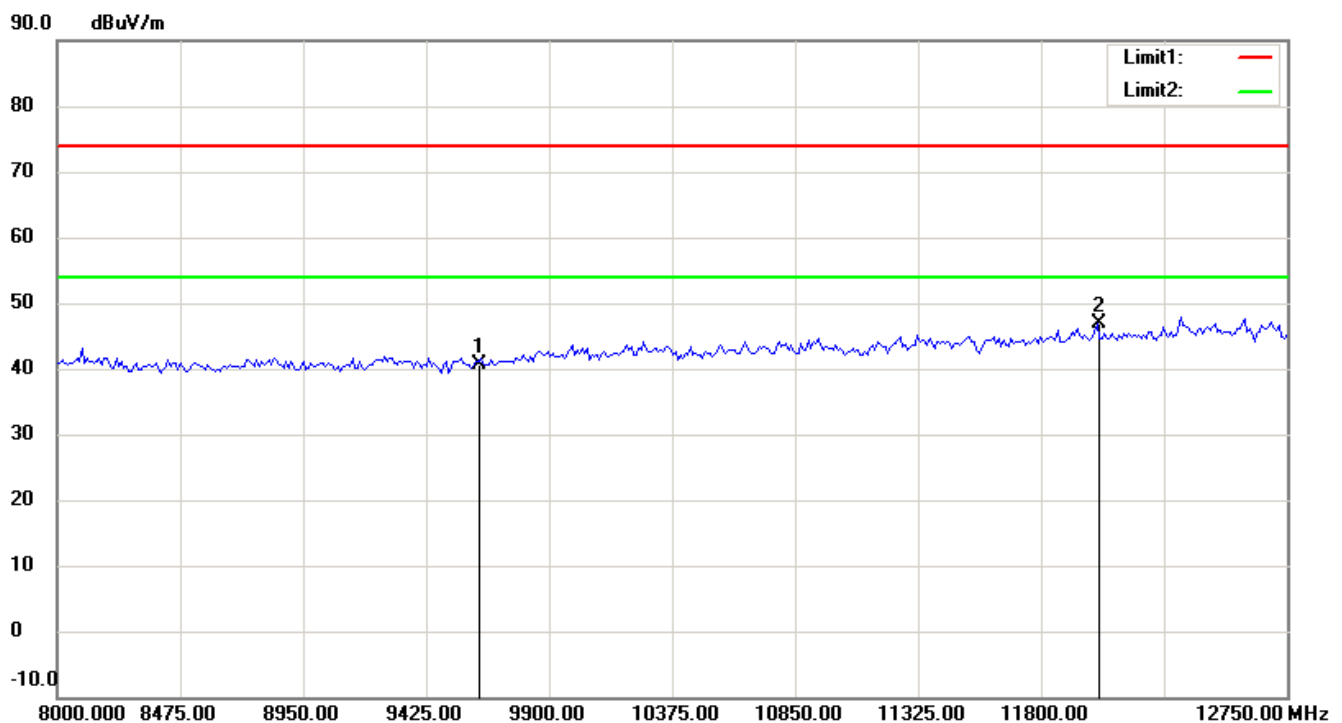
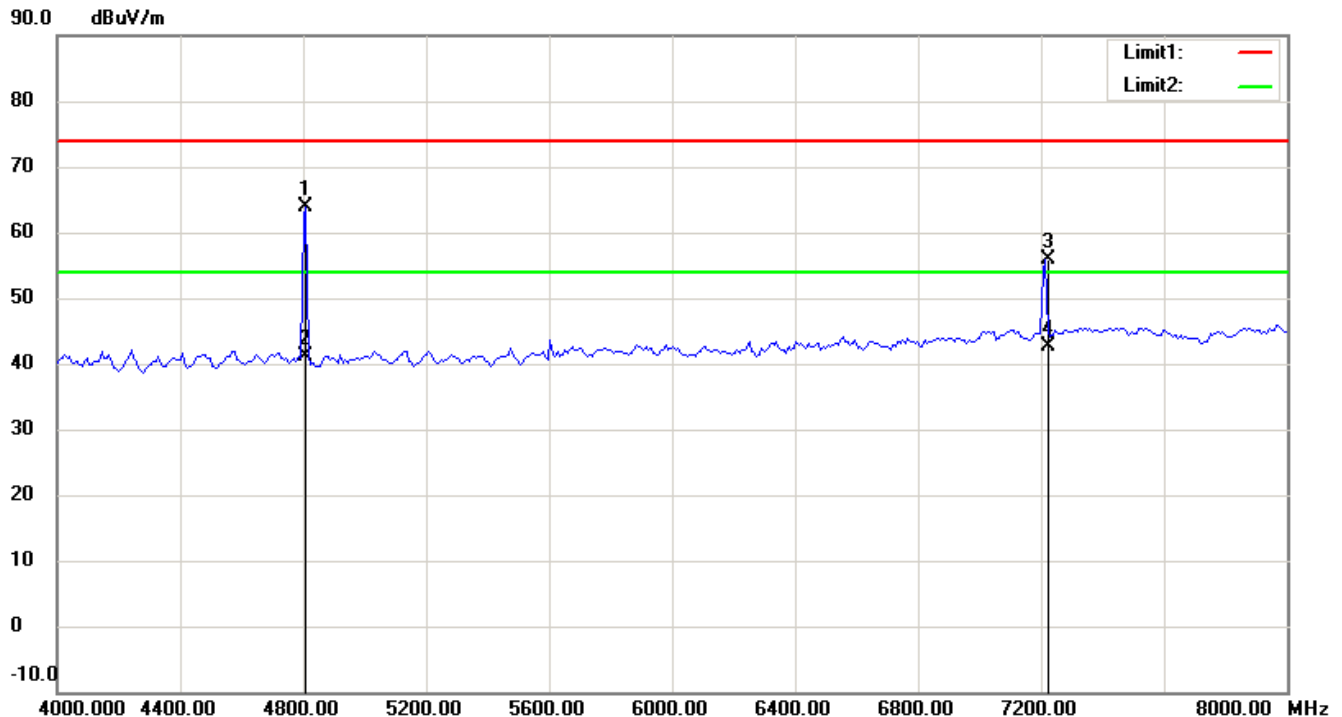
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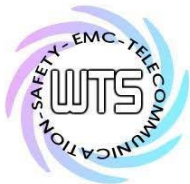
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

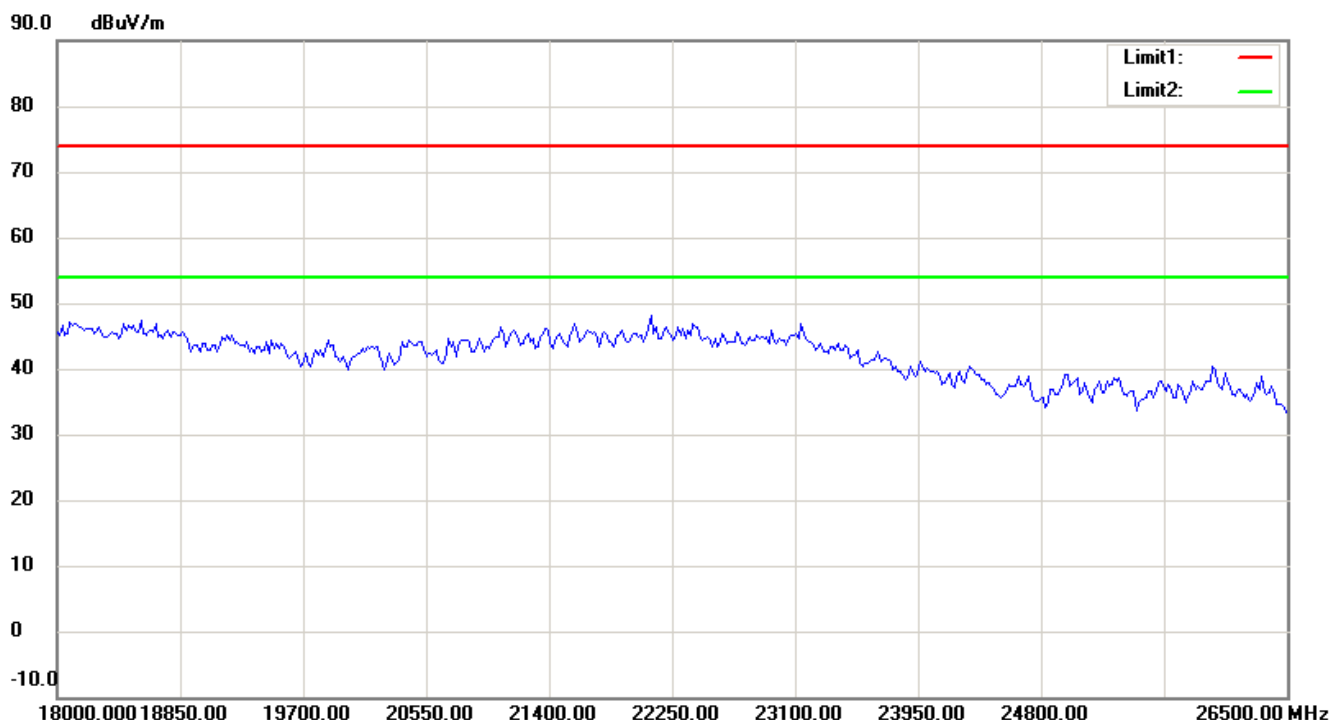
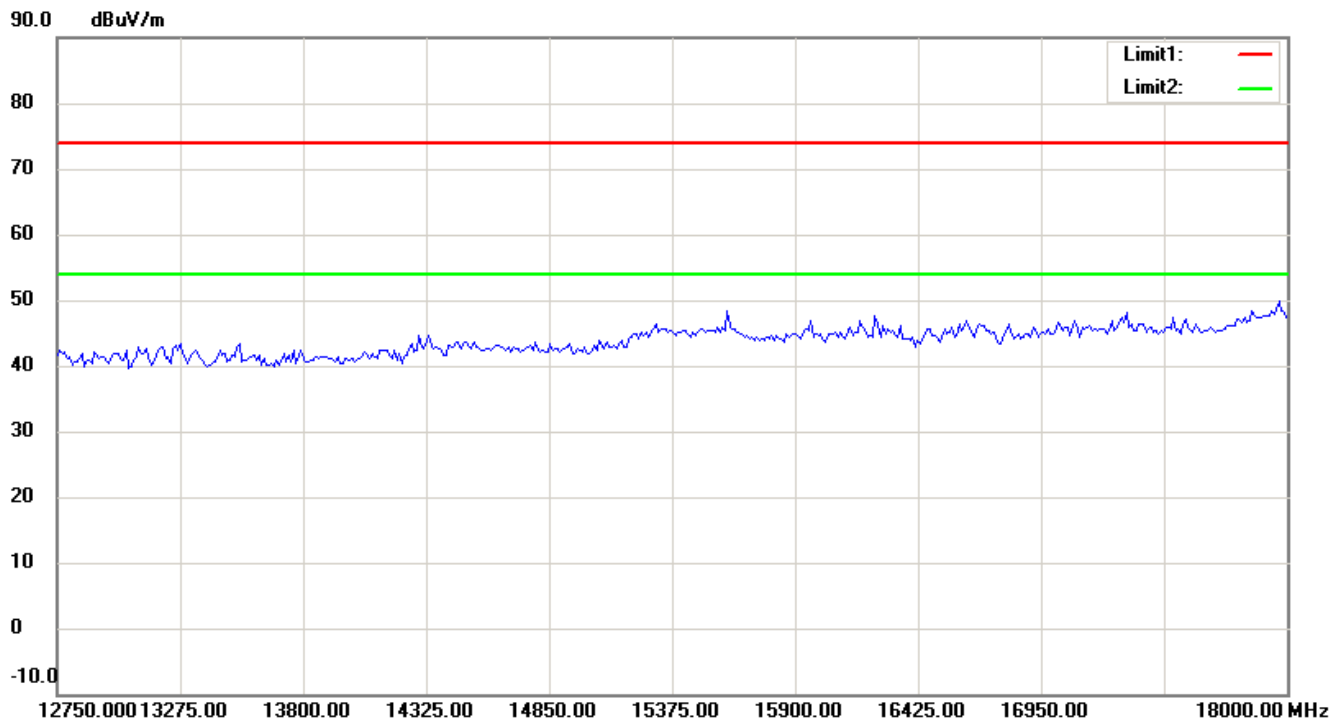
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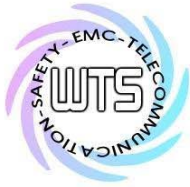
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Down Line: Ave Limit Line

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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

FCC ID: Q7A65000W0

Antenna Polarization V

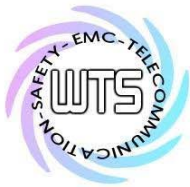


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

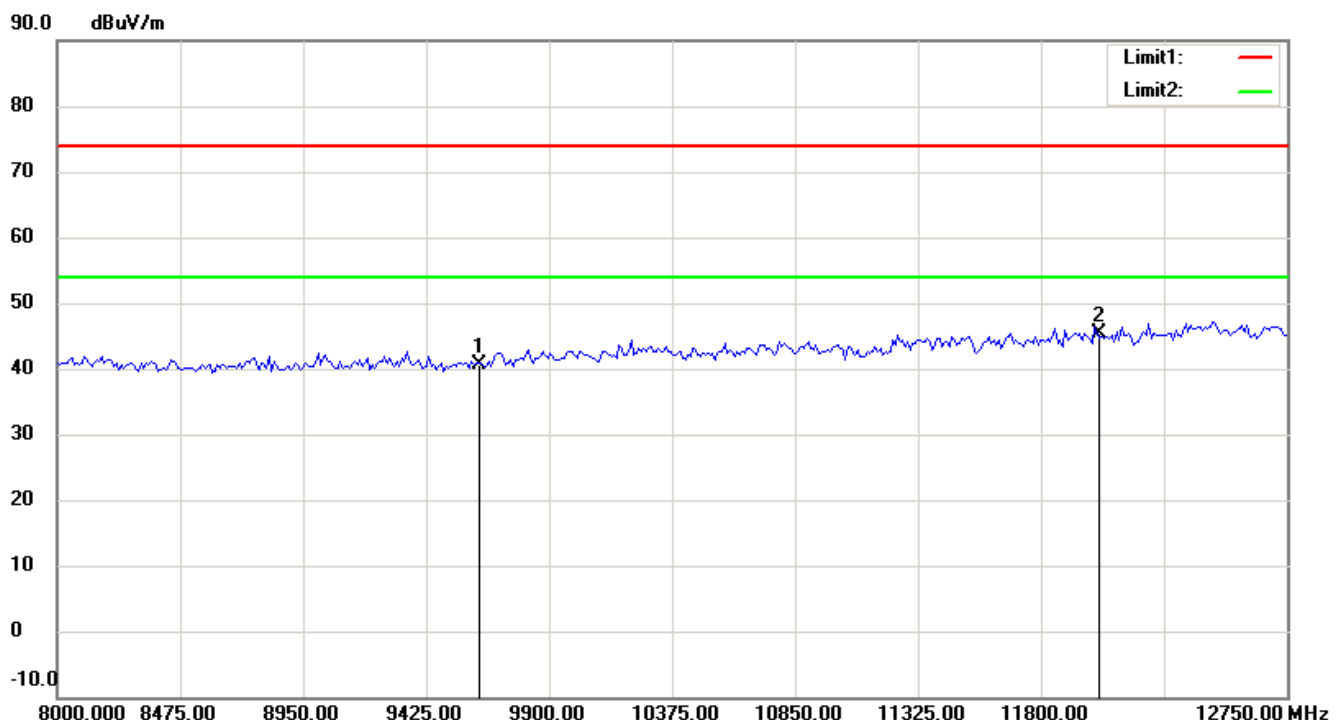
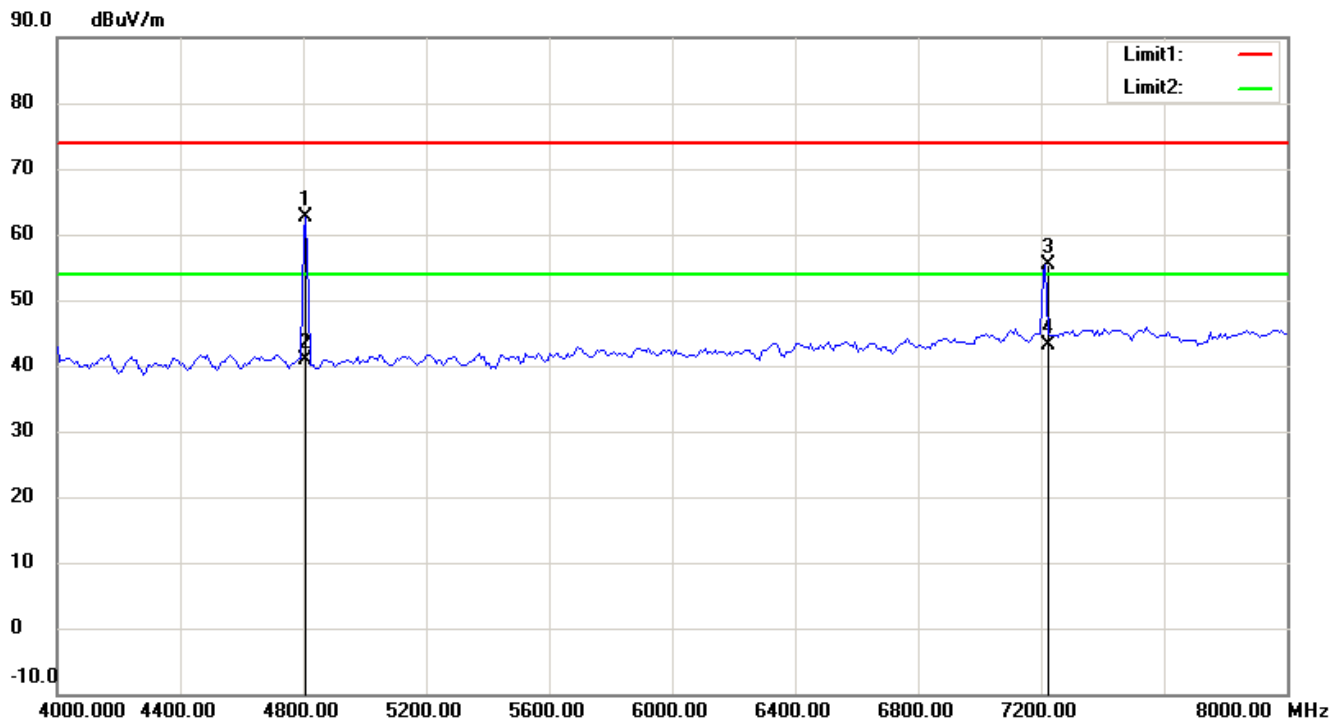
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Registration number: W6M21209-12734-C-1

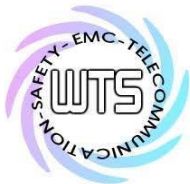
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

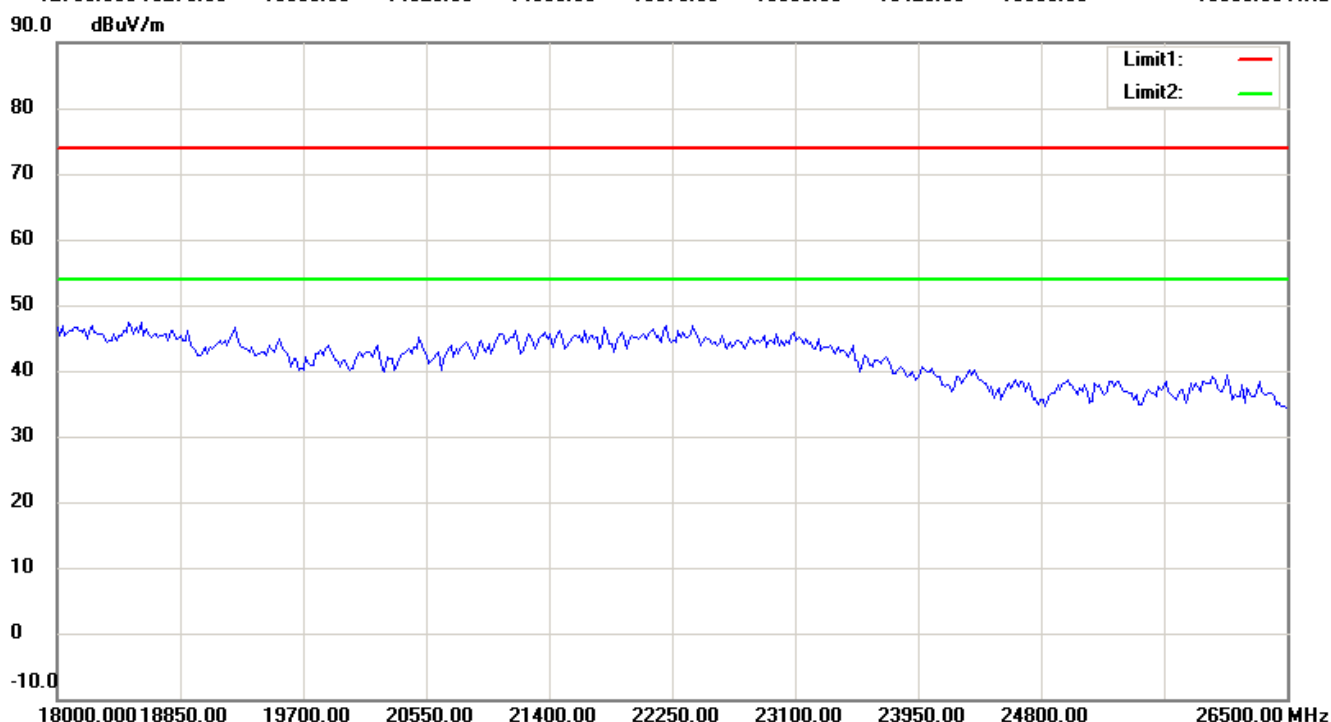
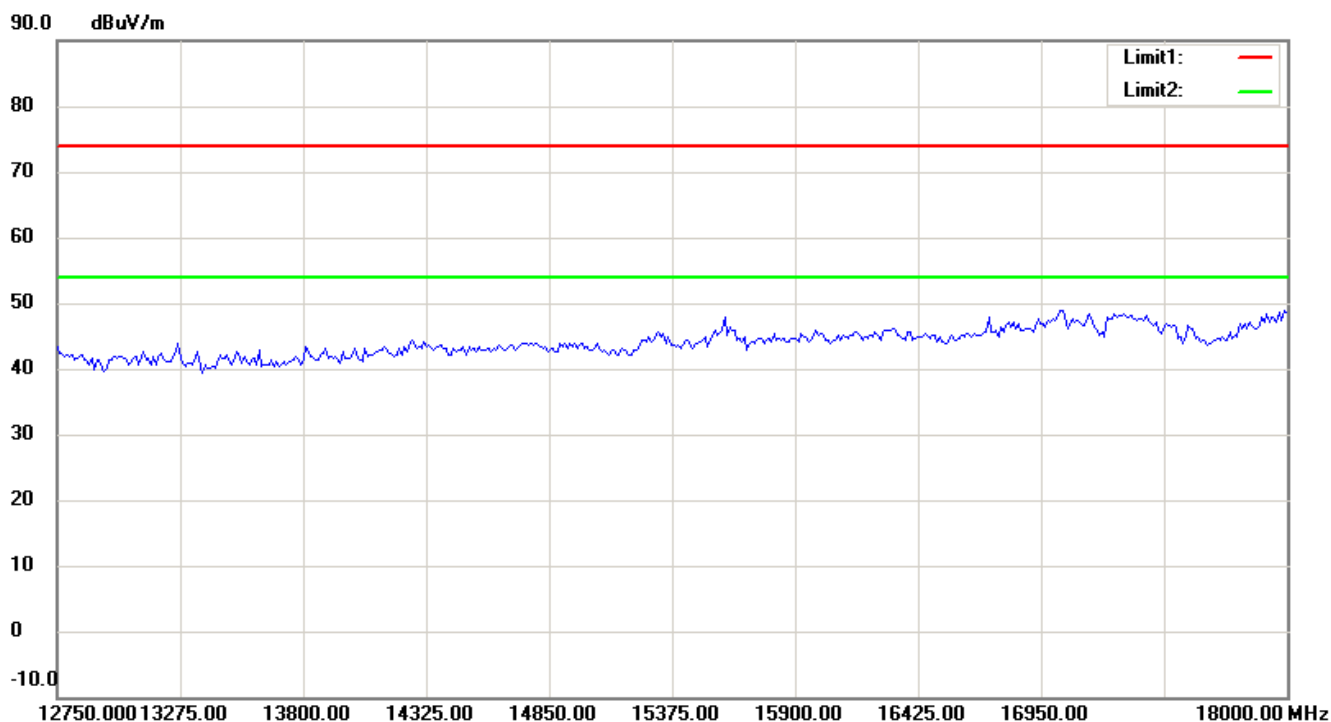
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FCC ID: Q7A65000W0

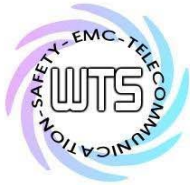


Up Line: Peak Limit Line

Down Line: Ave Limit Line

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Worldwide Testing Services(Taiwan) Co., Ltd.

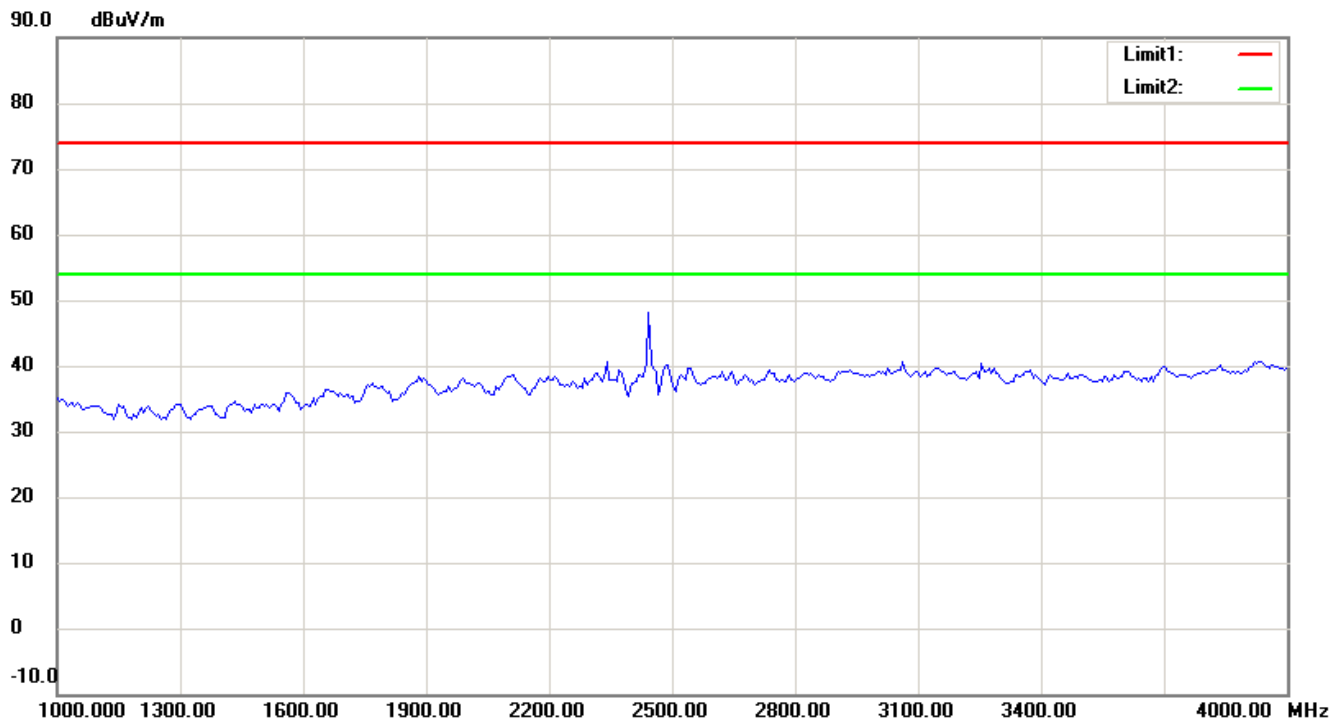
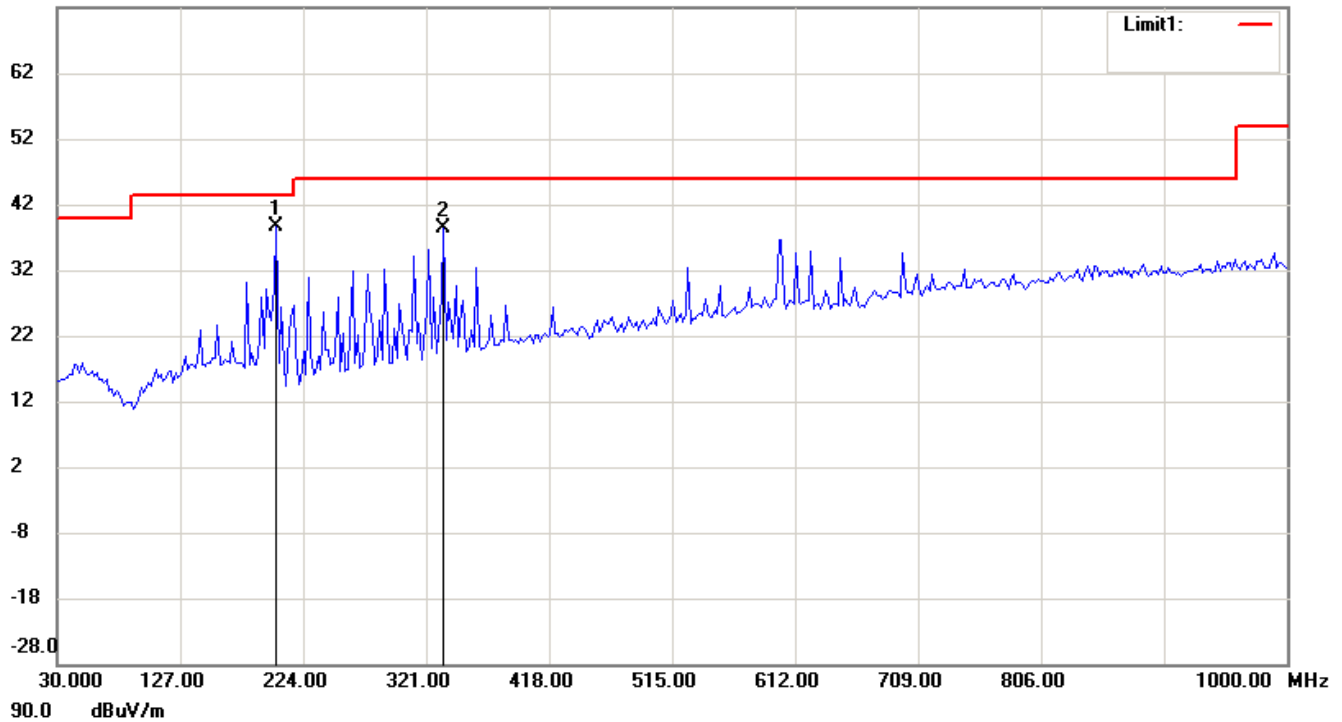
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2440MHz CH18

Antenna Polarization H

72.0 dBuV/m

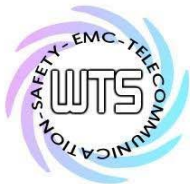


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

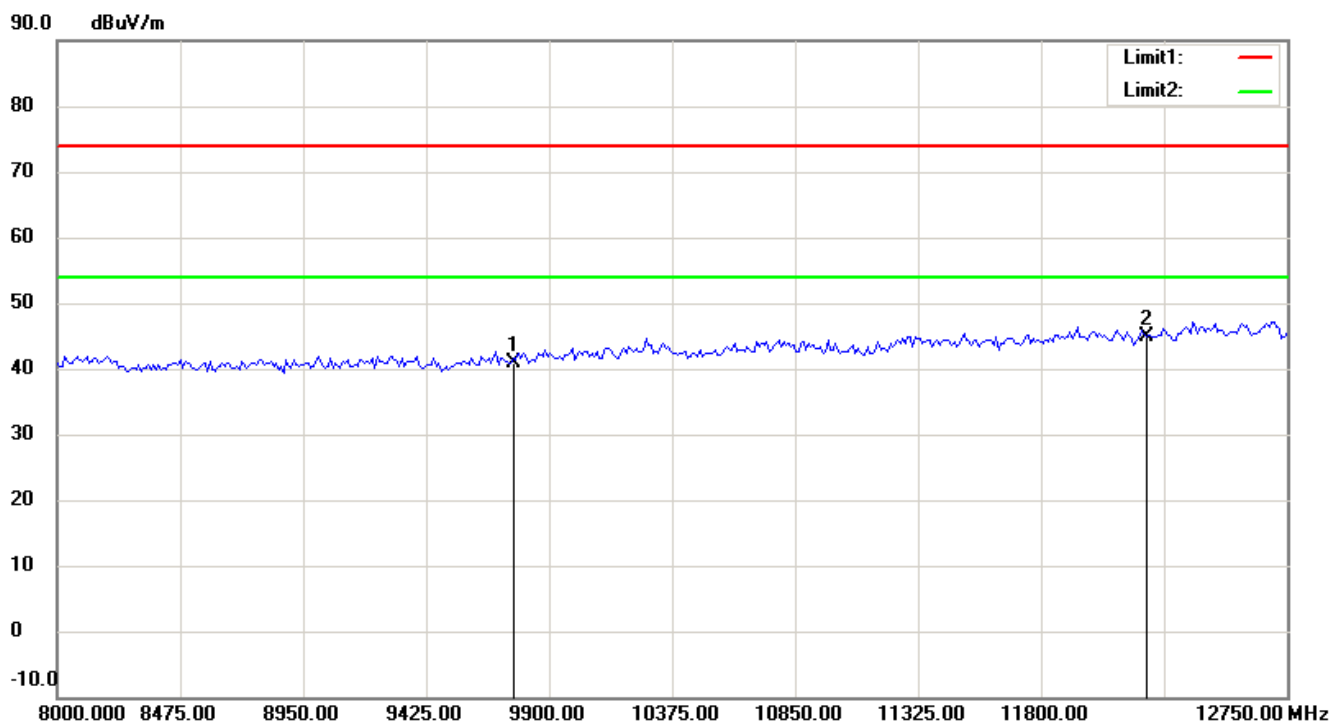
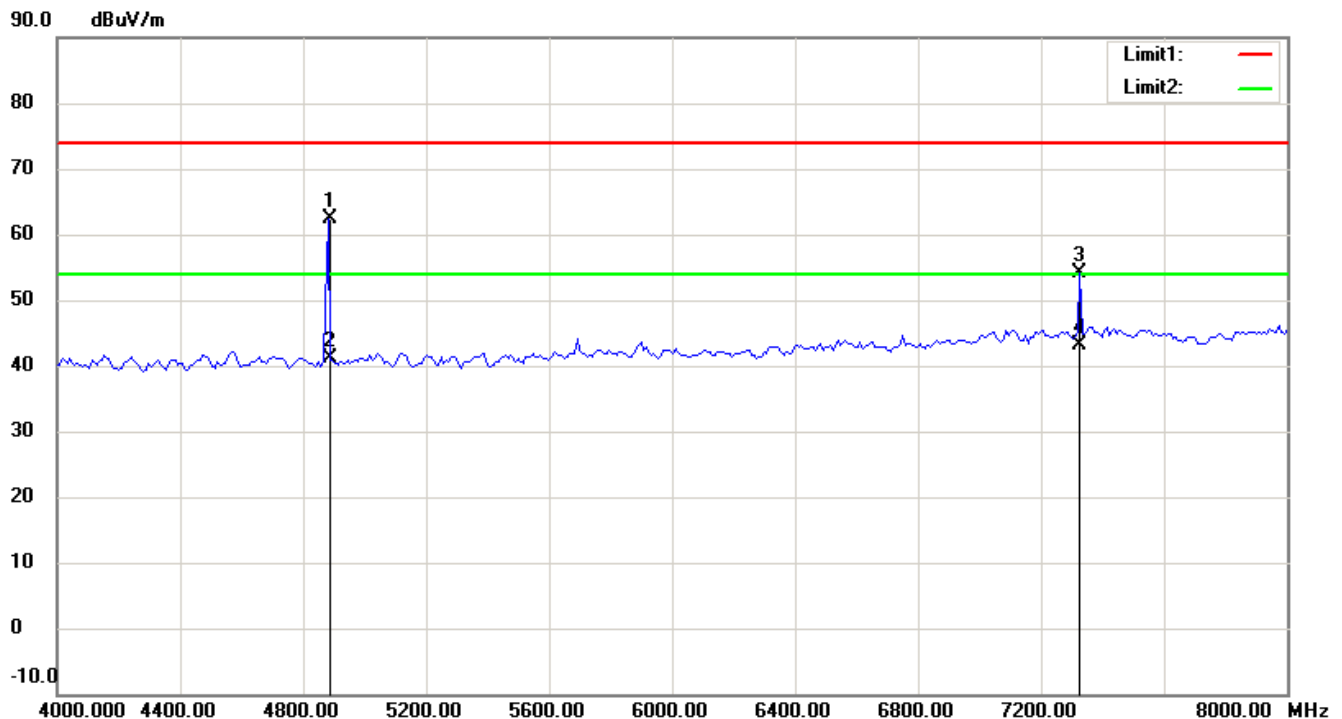
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21209-12734-C-1

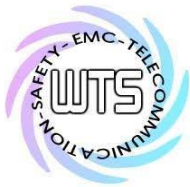
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

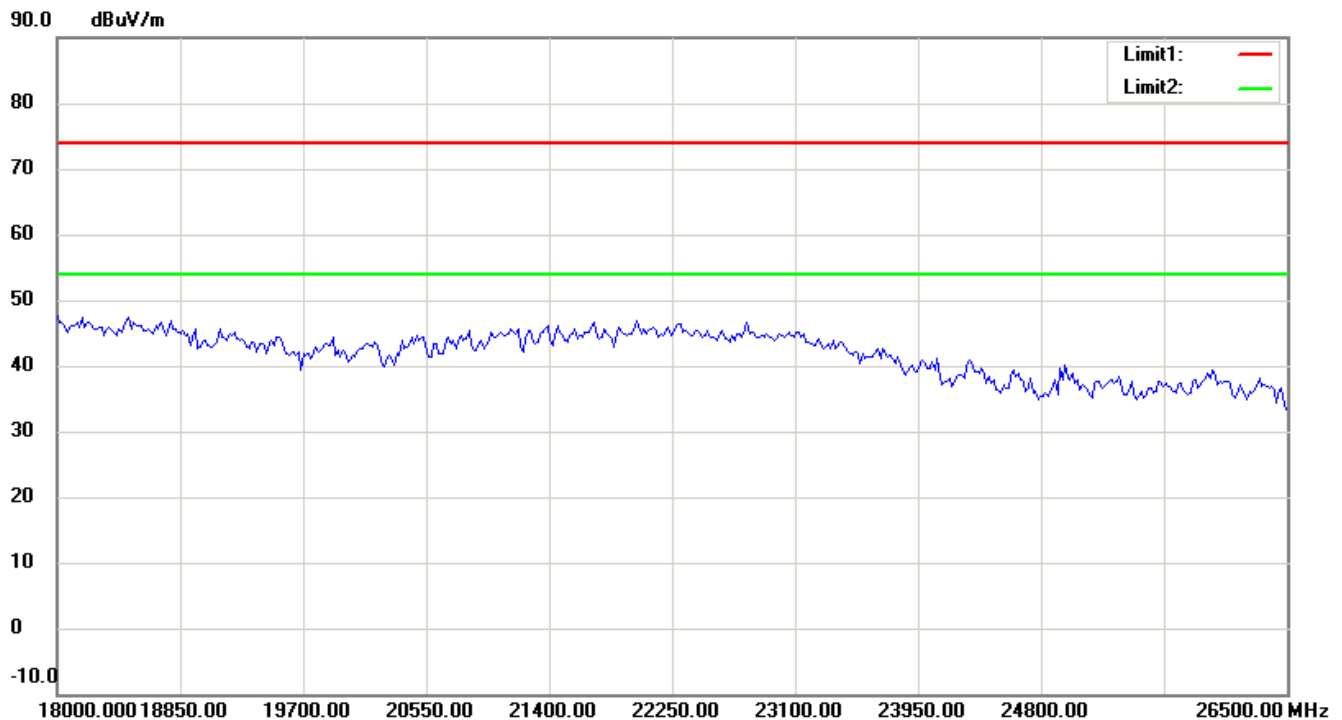
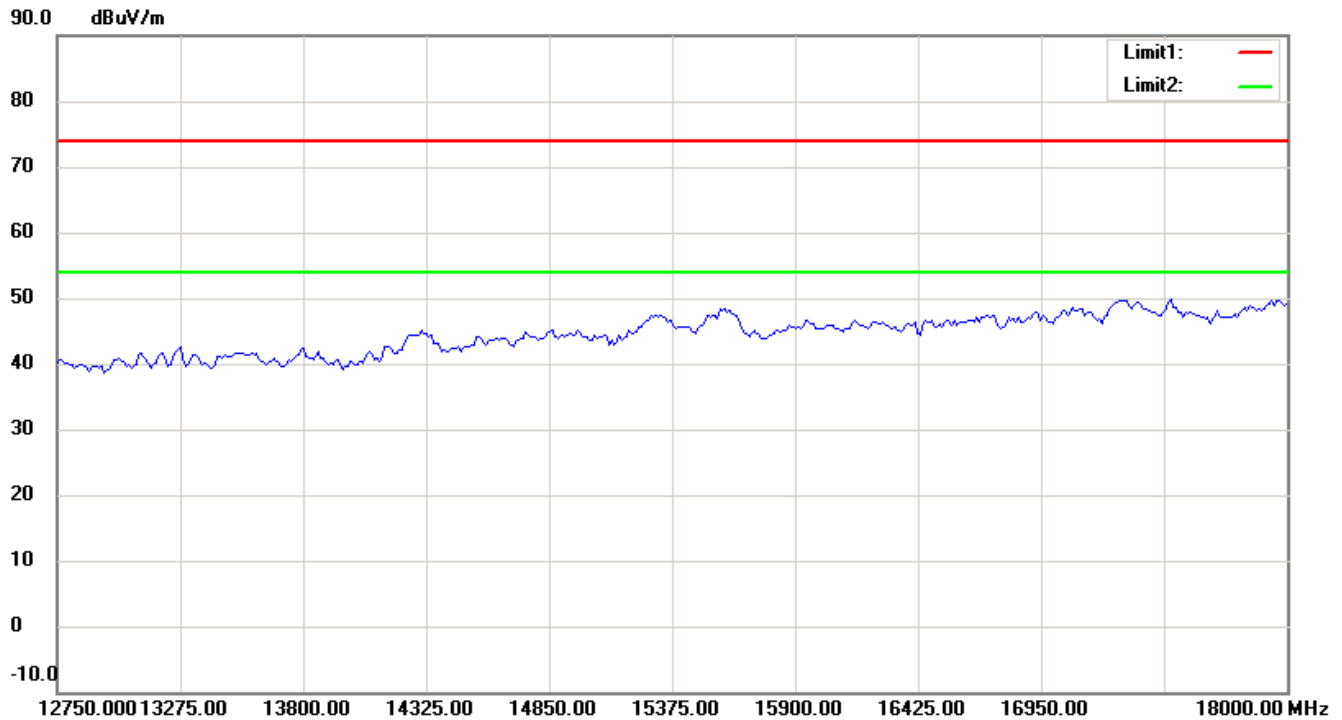
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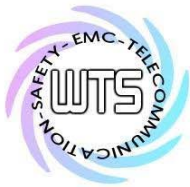
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

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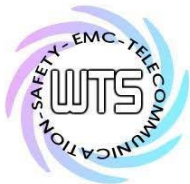
Antenna Polarization V



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

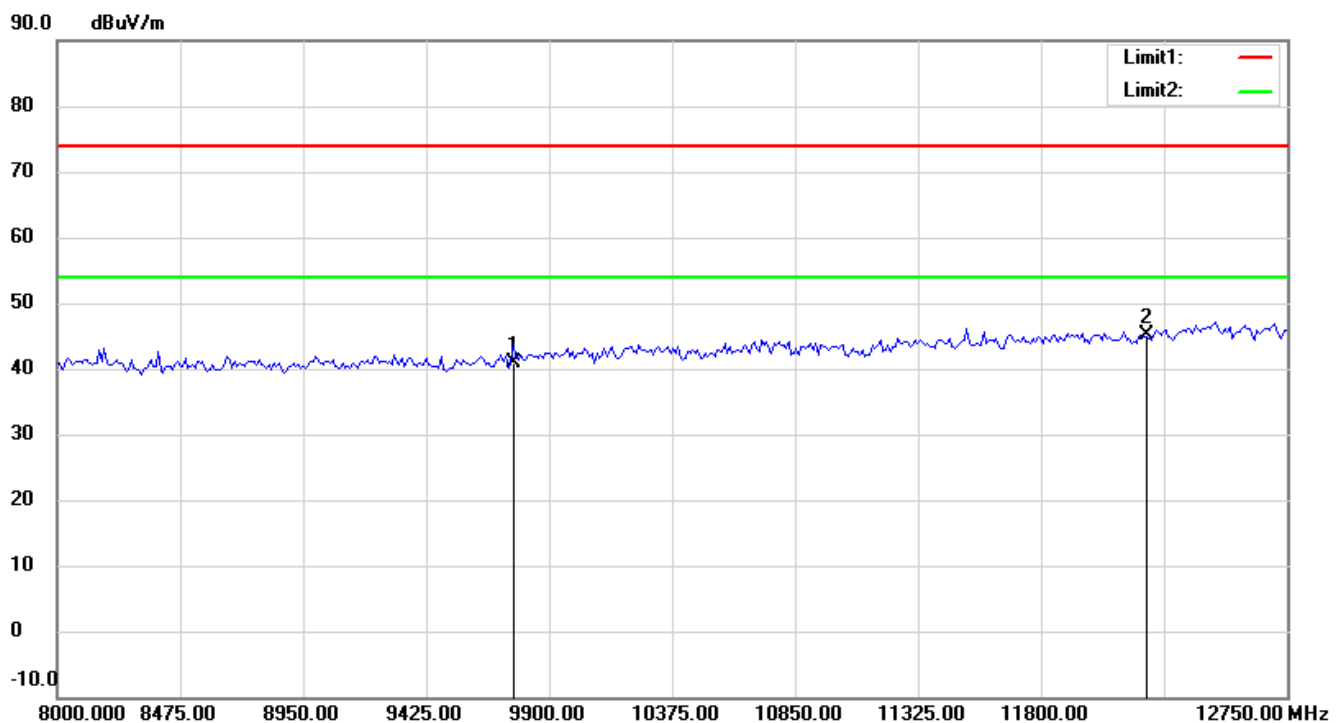
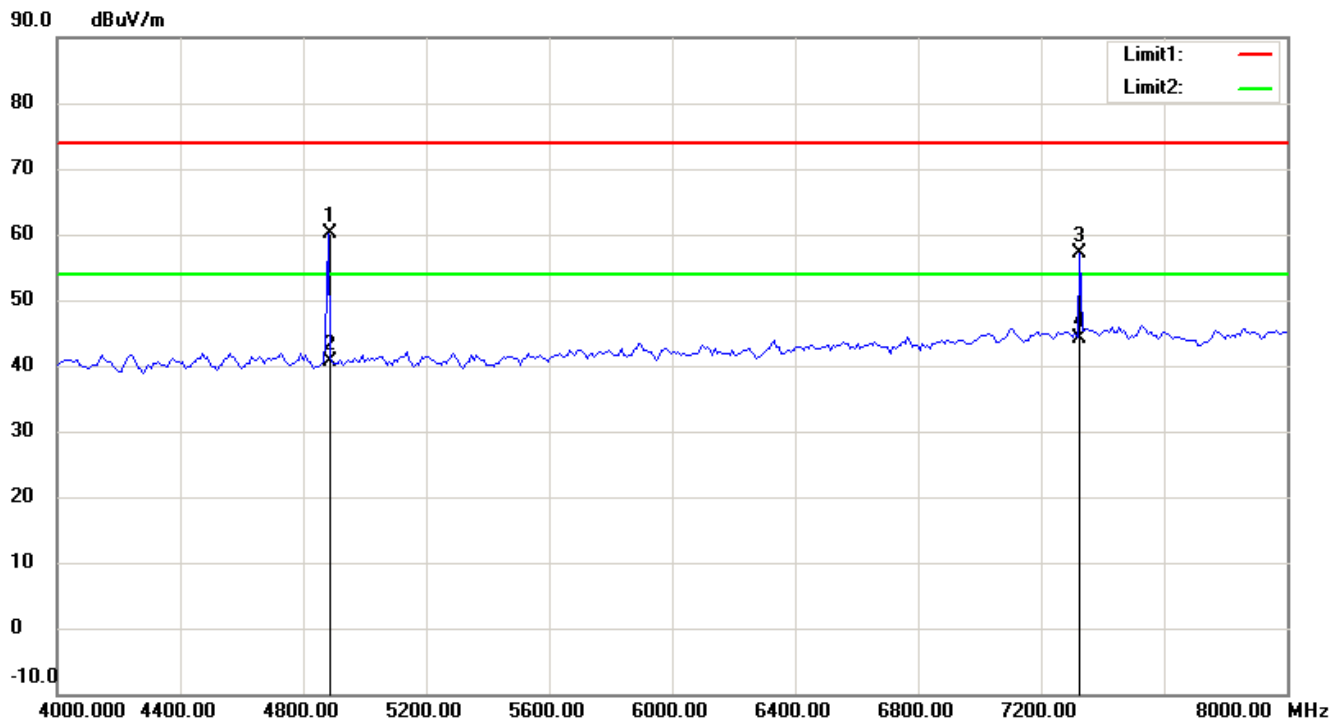
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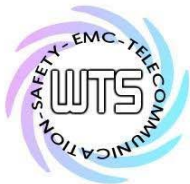
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

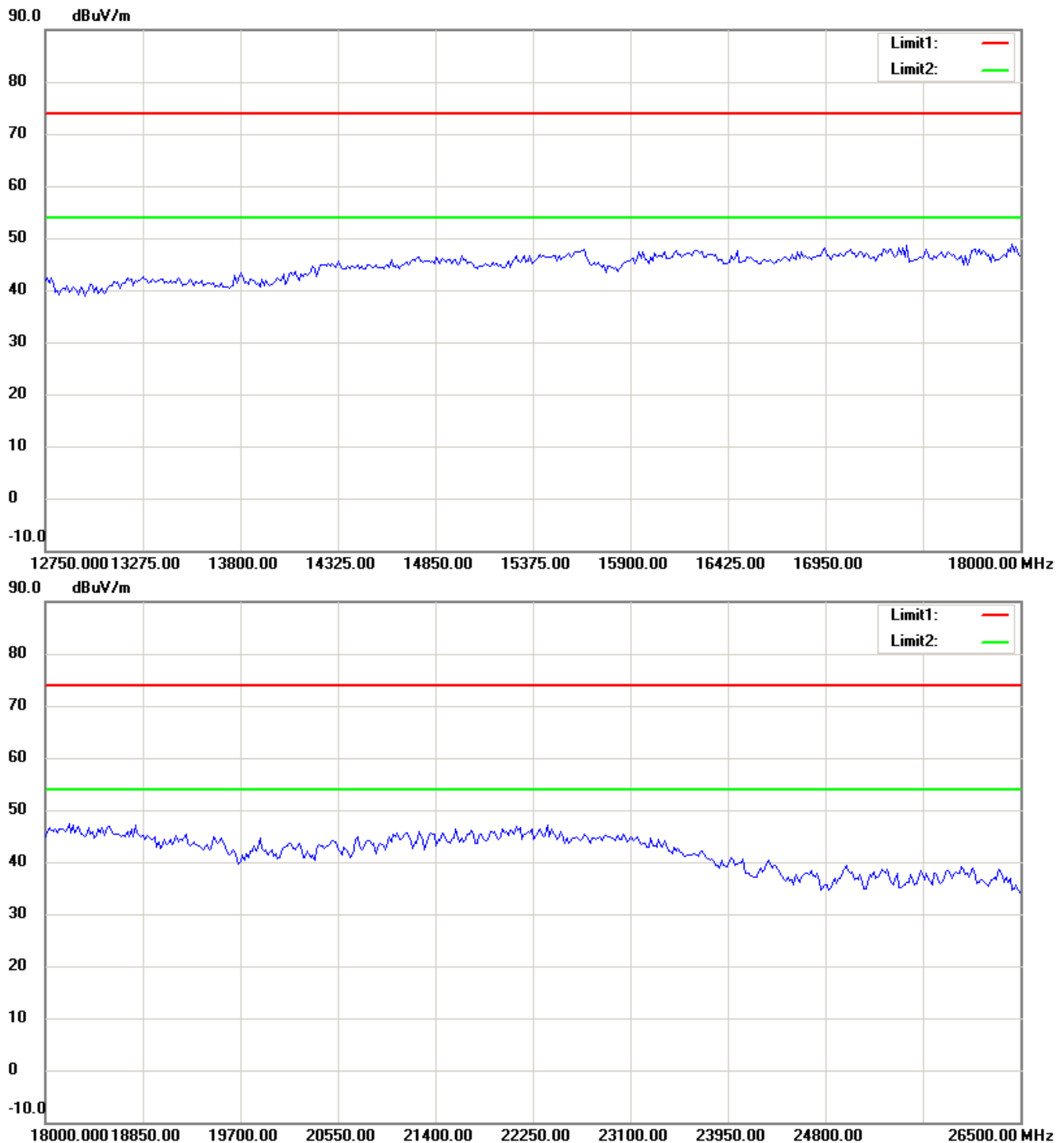
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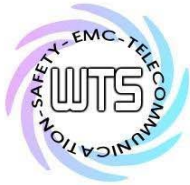
FCC ID: Q7A65000W0



Up Line: Peak Limit Line
Down Line: Ave Limit Line

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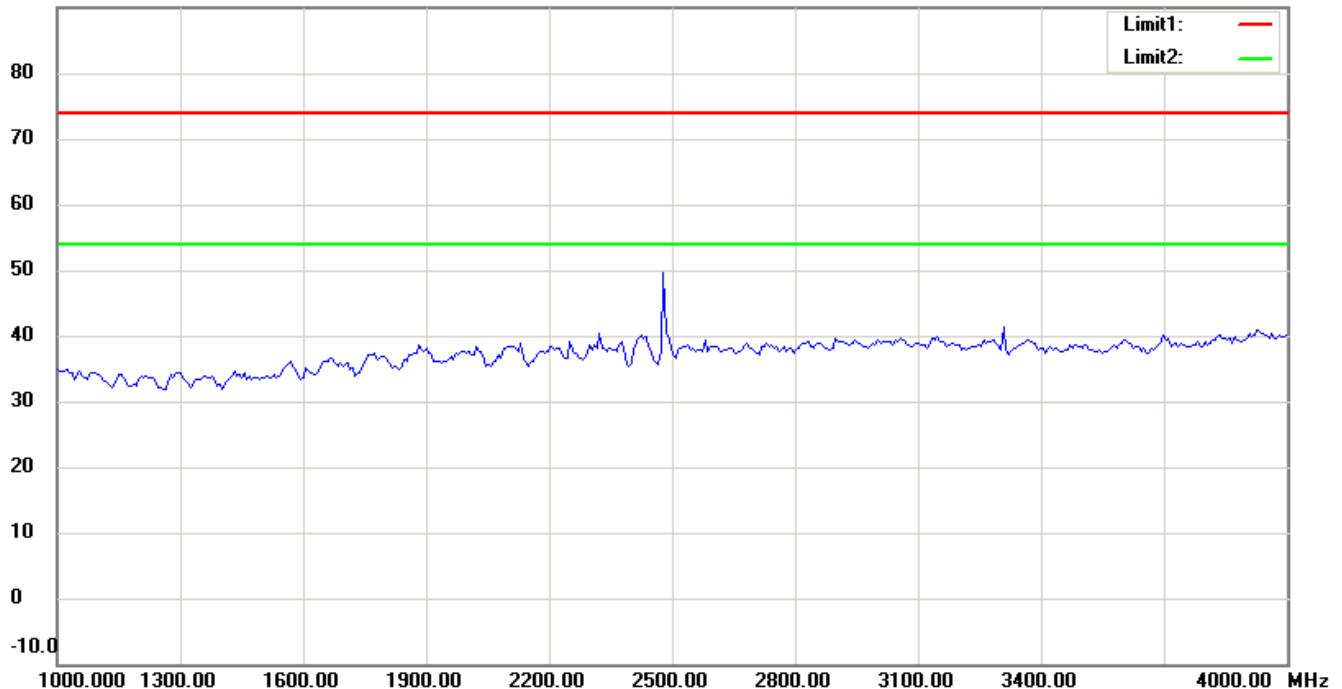
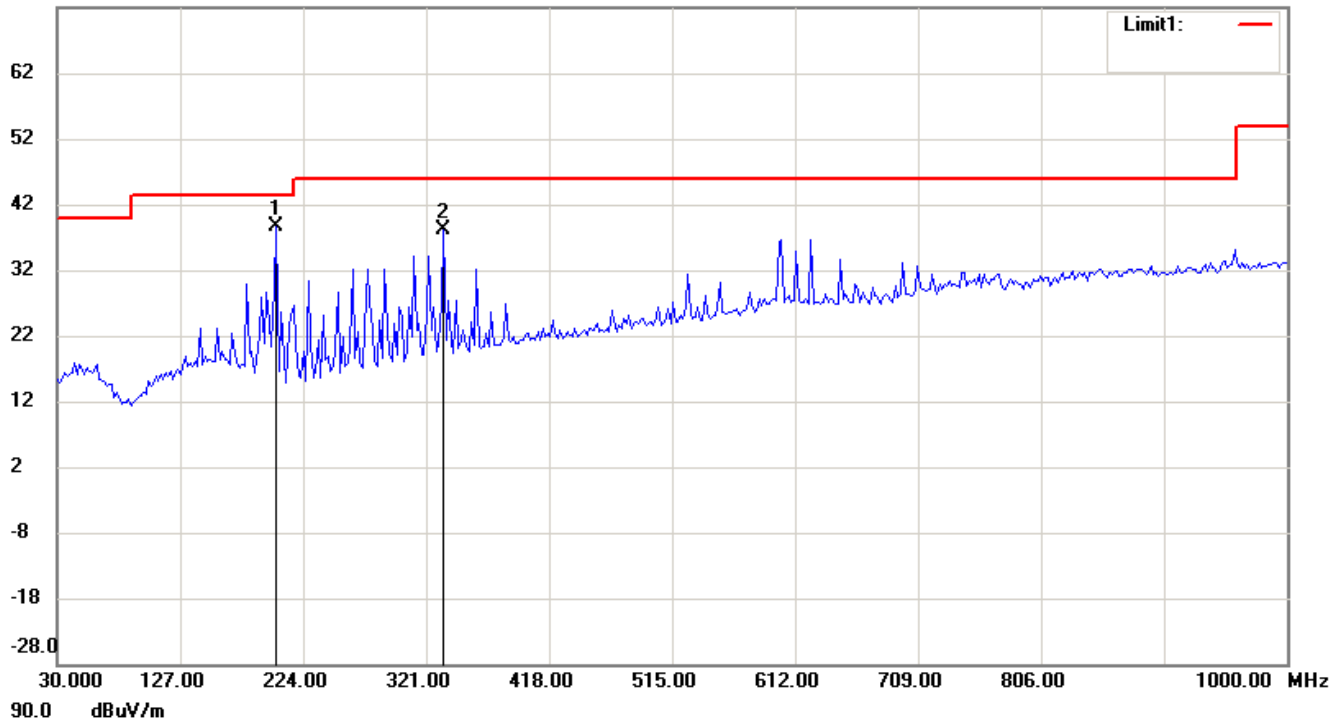
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FCC ID: Q7A65000W0

2480MHz CH26

Antenna Polarization H

72.0 dBuV/m

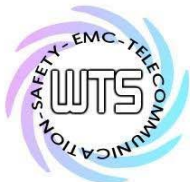


Up Line: Peak Limit Line

Down Line: Ave Limit Line

Note:

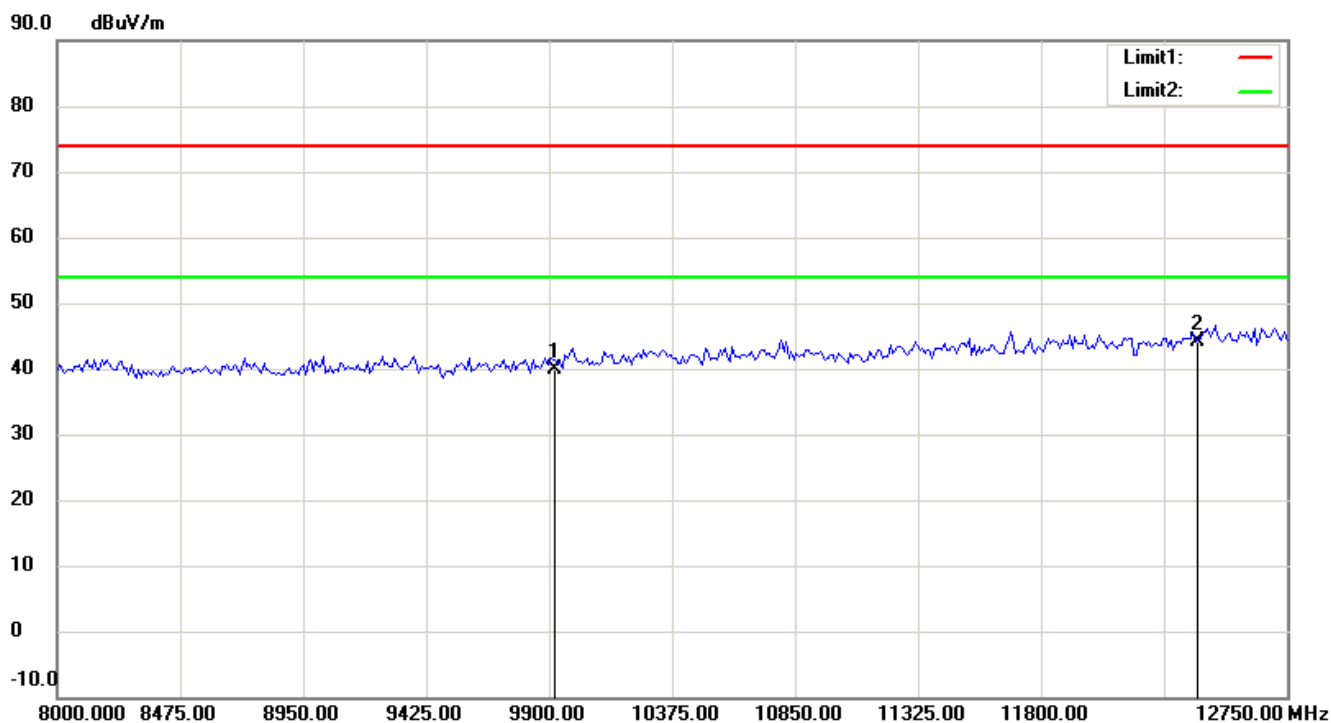
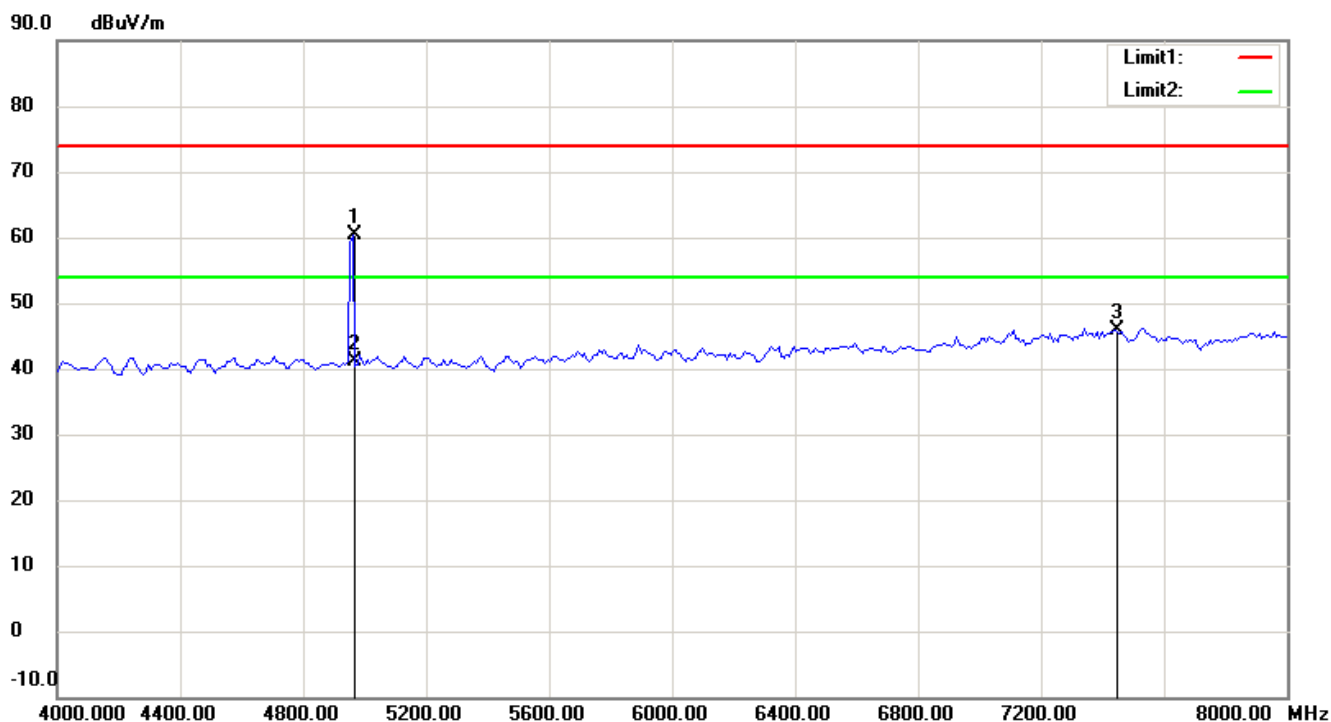
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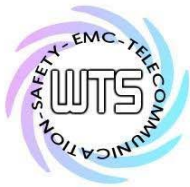
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Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

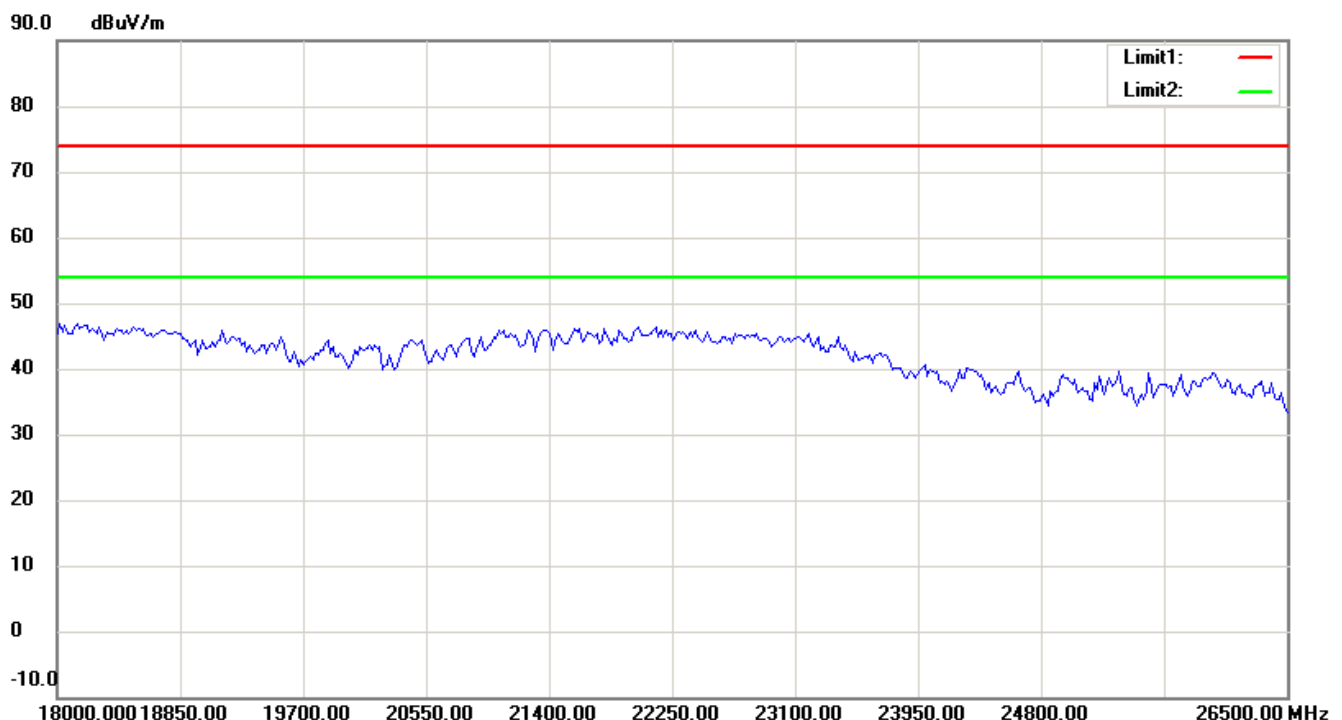
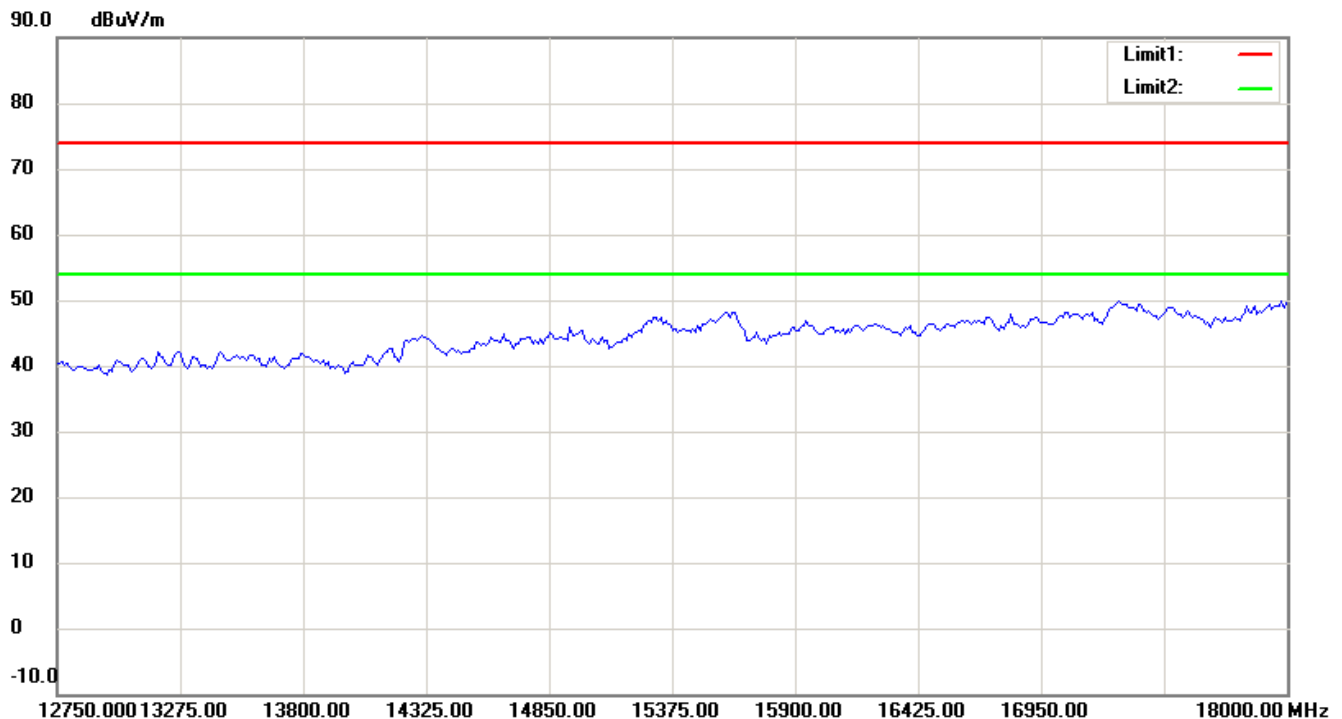
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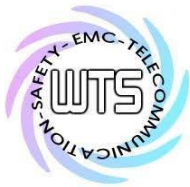
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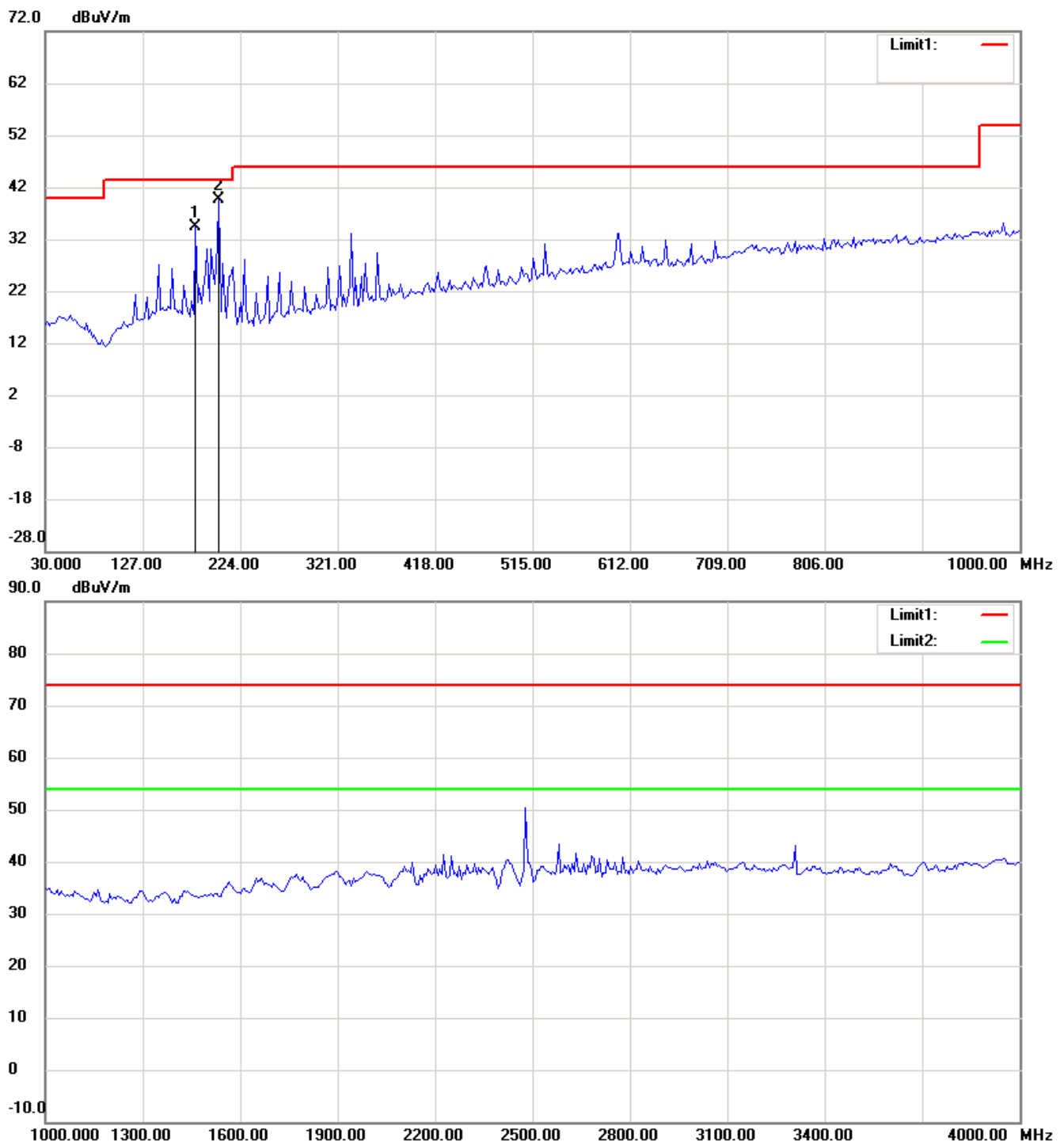


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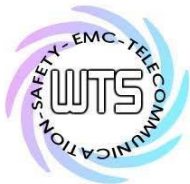
Antenna Polarization V



Up Line: Peak Limit Line
Down Line: Ave Limit Line

Note:

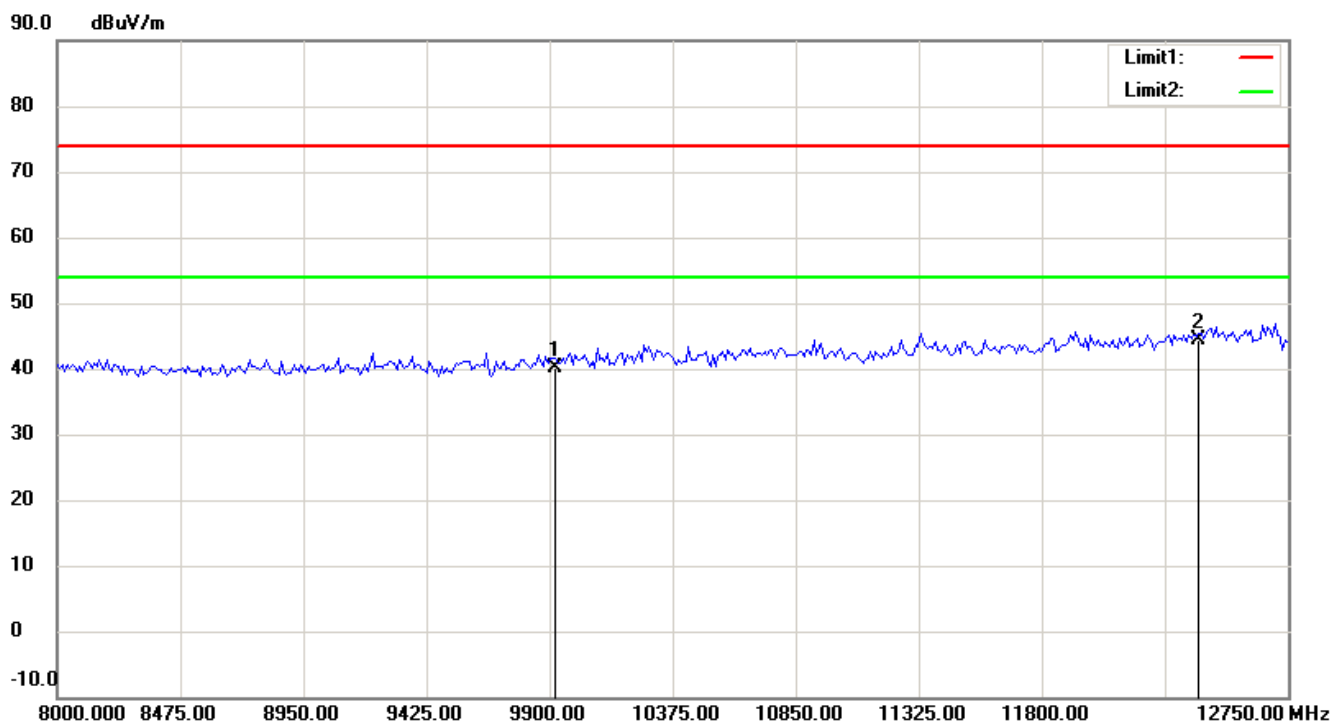
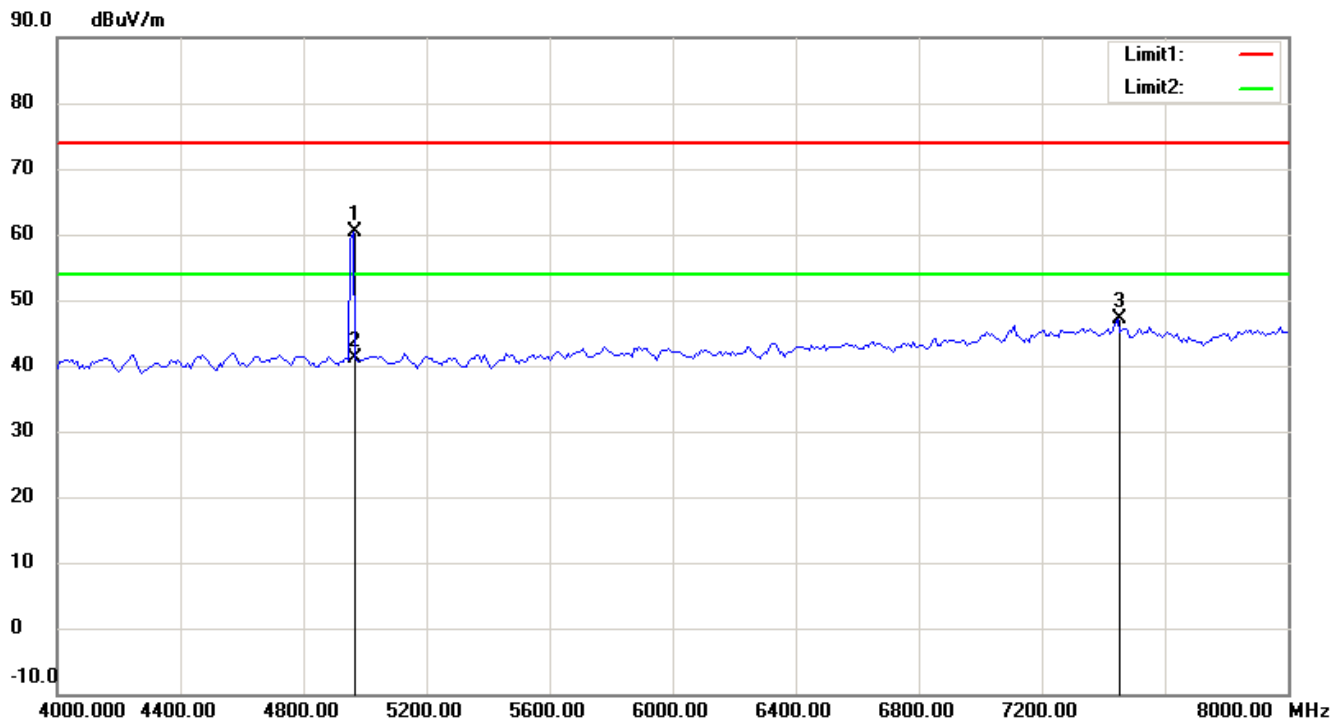
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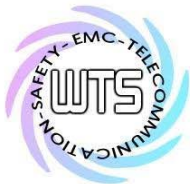
FCC ID: Q7A65000W0



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Note:

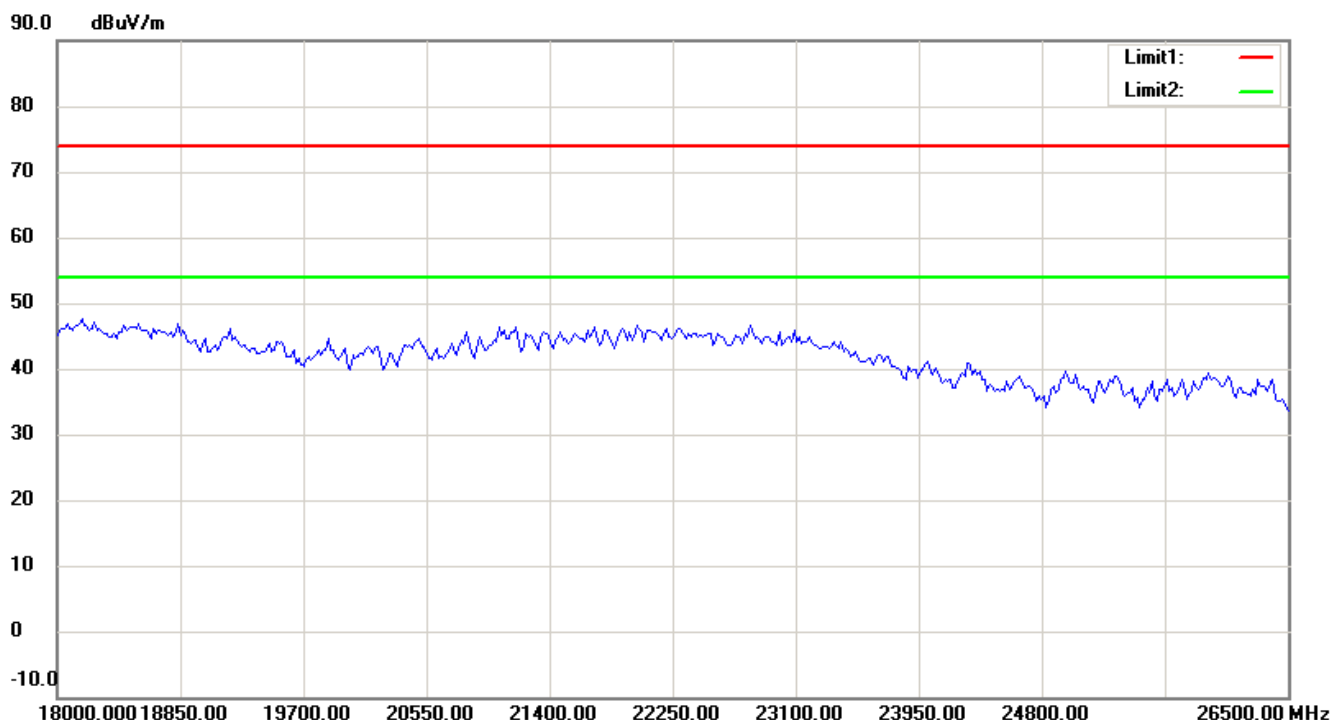
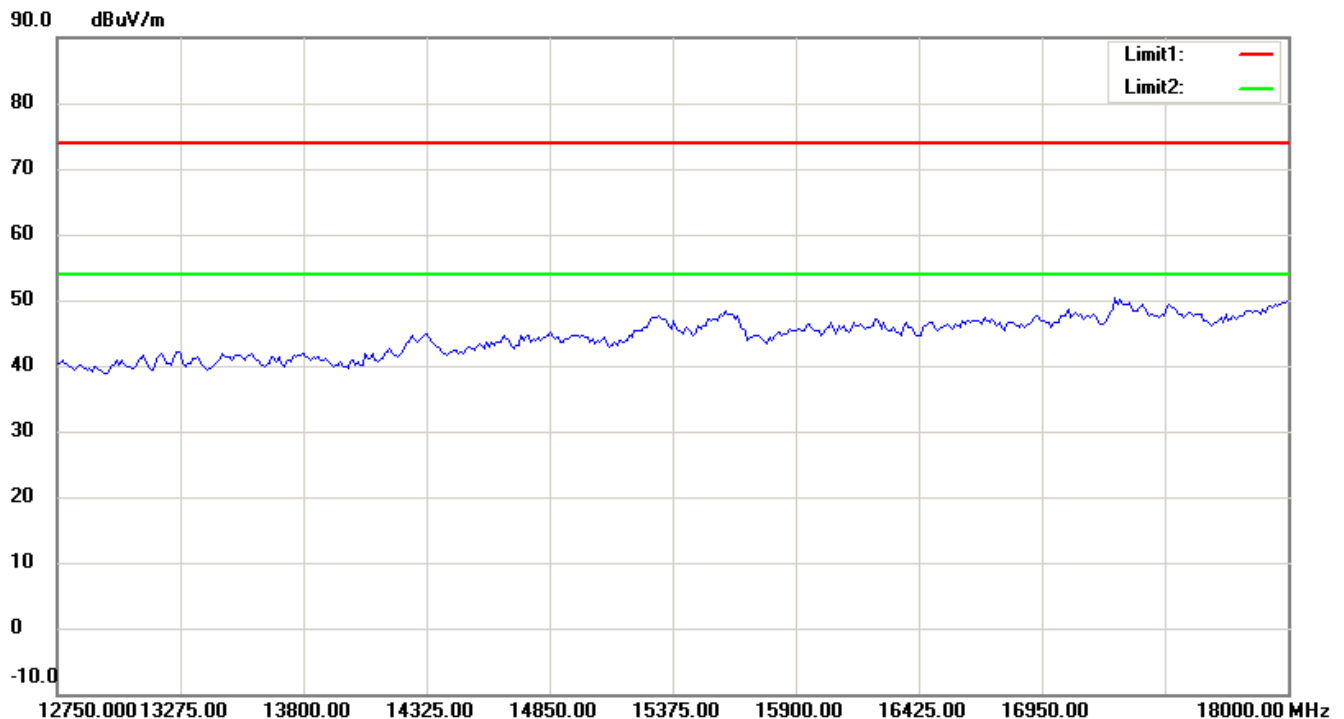
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